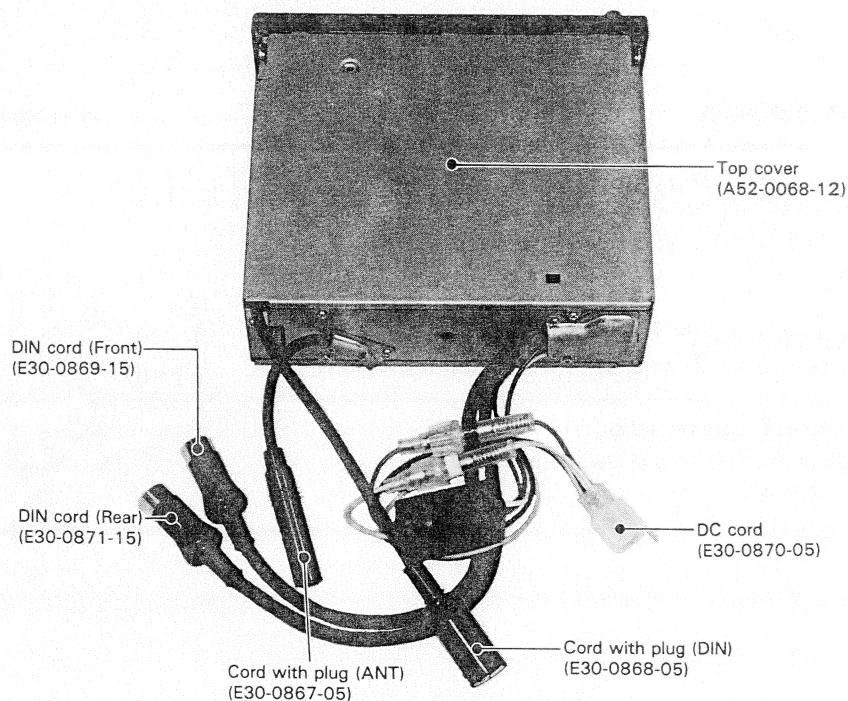
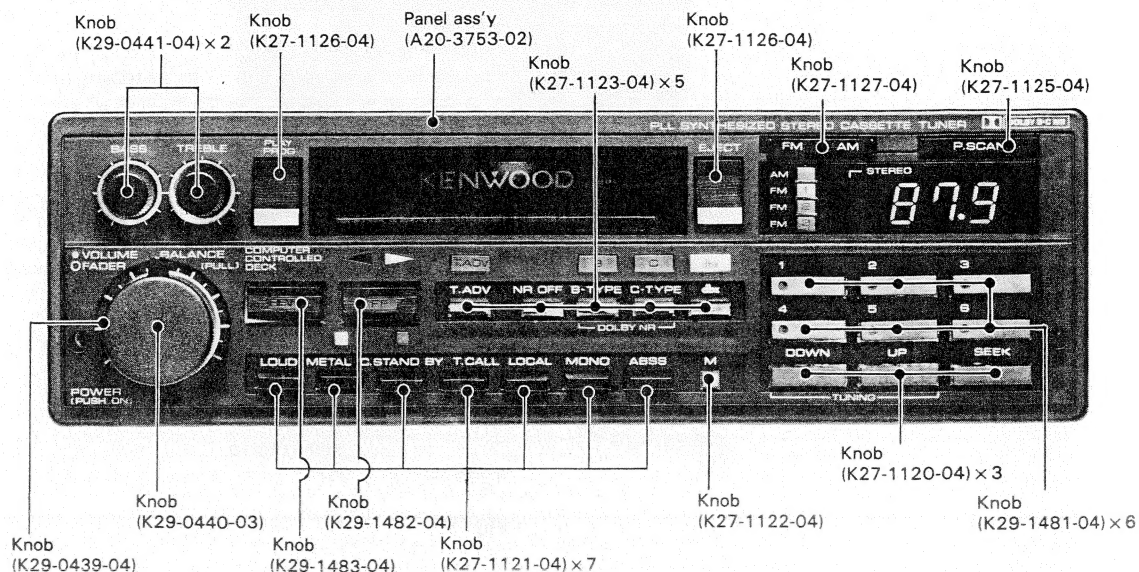


KENWOOD

KRC-929

PLL SYNTHESIZED STEREO CASSETTE TUNER



* Refer to Parts List on page 17.

INTERNAL VIEW/DISASSEMBLY FOR REPAIR

INTERNAL VIEW

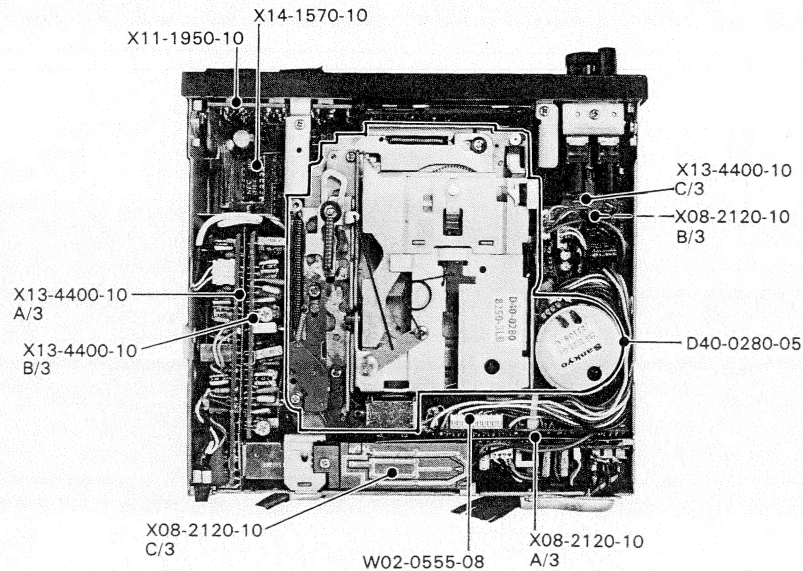


Fig. 1

DISASSEMBLY FOR REPAIR

1. To Remove the Control PC Board

- 1) Remove the screws fixing the snap-action switch.
- 2) Remove the solder from the screw fixing the pc board and remove it.

2. To Remove the Keep Solenoid

- 3) Remove the screws fixing the solenoid.

3. To Remove the Eject Lever Assembly

- 4) Remove the screws, and remove the assembly in the direction of the arrow.

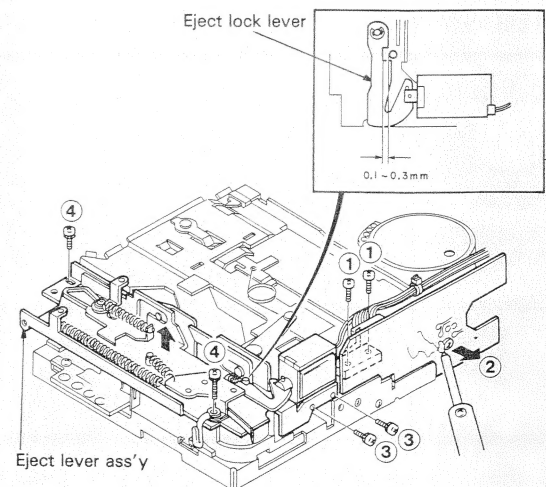


Fig. 2 Procedure for removing PCB and eject lever

DISASSEMBLY FOR REPAIR

4. To Remove the Head & Switch Ass'y

- 5) Remove the eject lever assembly, and take off the solder from the screw retaining the pcb and remove the screw.
- 6) Remove the screws fixing the head, and remove the head, the board and SW. To assemble, first temporarily fix the slide switch as in the figure. Confirm that "PROG" functions normally and tighten the screw and solder.

5. To Remove the Pinch Roller

- 7) Remove the E ring. When assembled, clean the pinch roller with pure alcohol.

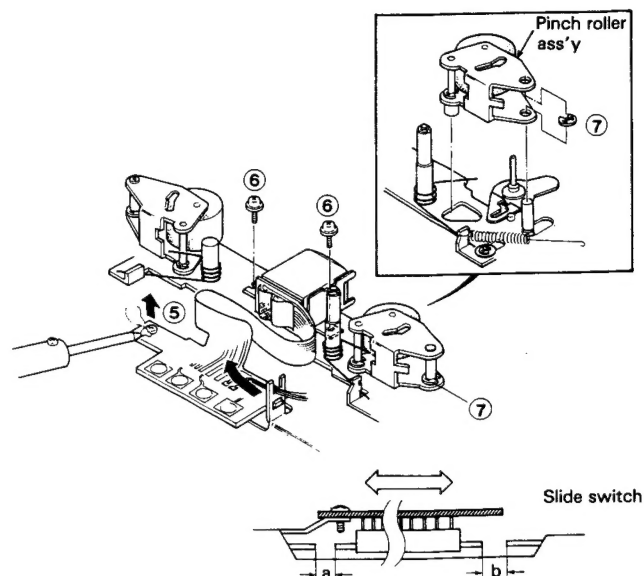


Fig. 3 Procedure for removing the head and pinch roller

6. To Mount the Eject Lever

- 8) Push the head base assembly in the direction shown in the figure, and assemble the eject lever assembly and the cassette holder at the same time.
- 9) At this time, assemble the eject gear in the position shown in the figure.
- 10) Fasten the screw.

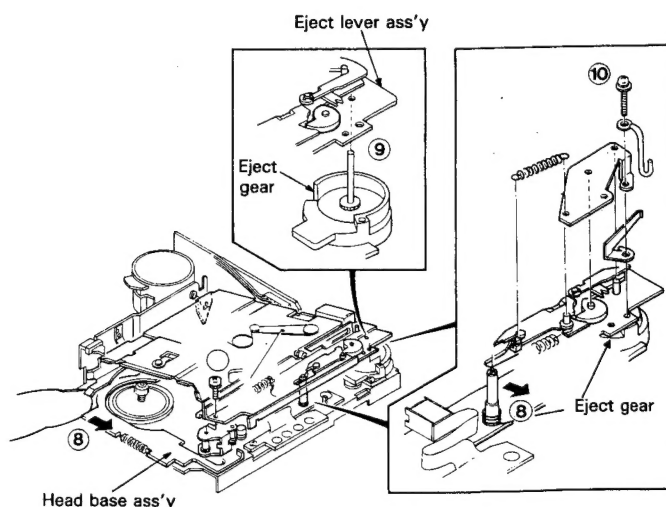


Fig. 4 Procedure for mounting the eject lever

7. To Remove the REW Solenoid

Remove the screw ①.

8. To Remove the Reverse Solenoid.

Remove the screws ②.

9. To Remove the R/F Solenoid

Remove the screw ③.

10. To Remove the Motor

Remove the screws ④.

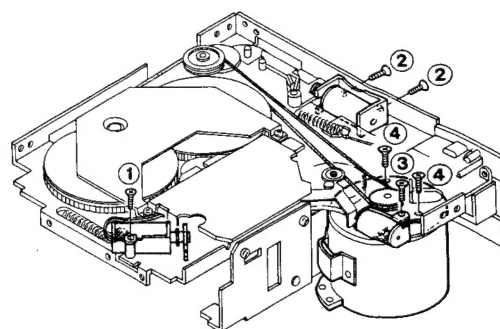


Fig. 5 Procedure for removing the solenoids

DISASSEMBLY FOR REPAIR

11. To Remove the Belt

Remove the screws ⑤.

When assembling, clean the belt with pure alcohol before mounting.

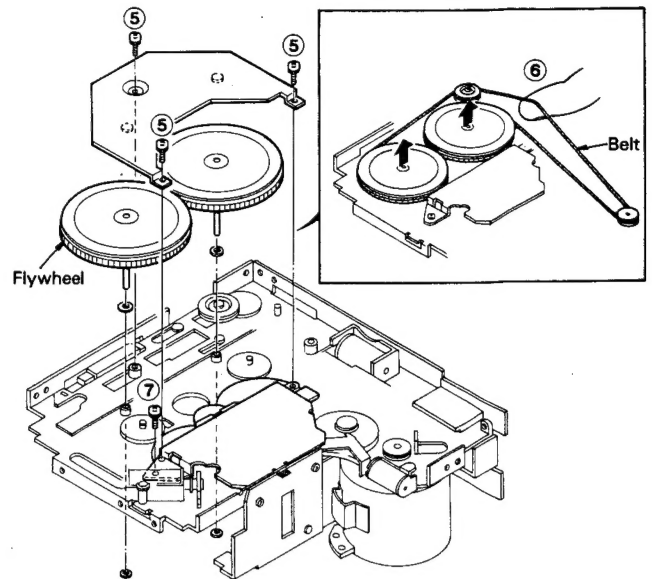


Fig. 6 Procedure for removing the flywheels and reels

12. To Remove the Reels

Remove the two flywheels, and remove the screw ⑦.

Remove the guide bracket by removing the screws ⑧. Compress the B.T. spring ⑪, and remove the reels in the direction shown by arrow ⑫. Take off the reels after removing the lock washers.

Remove the solder from the reed SW board and the metal fittings (⑬).

Remove the screw ⑭, and remove the reed SW board.

* Assembly should be carried in the reverse order to disassembly.

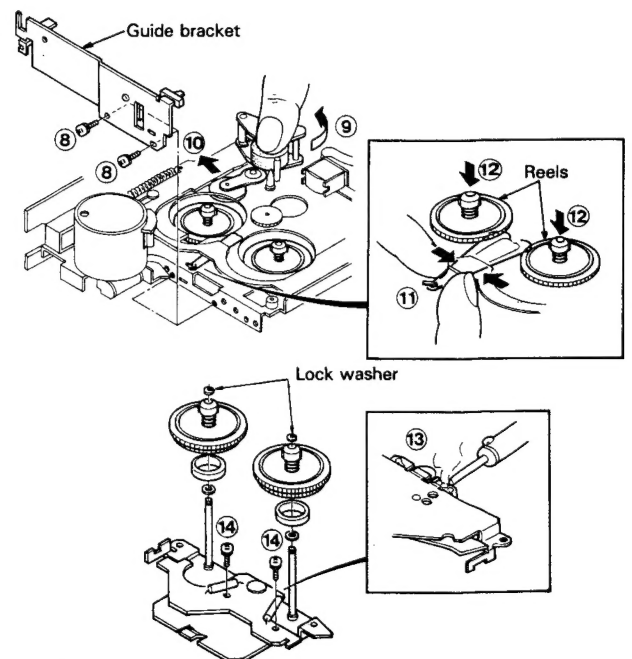


Fig. 7 Procedure for removing the metal fittings fixing the reels

MECHANISM DESCRIPTION

1. AUTO-LOADING Operation

When a cassette tape is inserted, the microswitch turns on, the power is turned on, the motor rotates and the idle pulley B rotates. Then, the eject idler gear C mounted on the head base rotates, and the gear A of the planetary gear portion rotates. Next the whole planetary gear mechanism rotates to turn the pinion gear D. Accordingly, the eject lever assembly E moves leftwards, and the lock pin F enters the groove of the eject lever G. The lock pin is held by the keep solenoid.

Note: If the motor of the removed mechanism is to be powered, load a cassette tape or push in the cassette guide. If the motor is powered without doing this, the mechanism may malfunction.

2. CASSETTE STANDBY and EJECT Operations

(1) In CASSETTE STANDBY (PAUSE) operation, if the C.STBY button is depressed to release the hold of the keep solenoid, the eject lock lever is released and the cassette holder is lifted up to the position of the cassette insertion port by the strong tensile eject spring.

At this time, the cassette guide is locked so that the cassette tape is not ejected. In pause release, play mode is automatically obtained by a depression of the C.STBY button or by a C.STBY signal of the tuner.

(2) The EJECT operation releases the keep solenoid and simultaneously activates the music sensor (MS) solenoid to operate, releasing the lock of the cassette guide to eject the cassette tape.

Therefore, if the yellow cord is not connected to the power at key-off eject time, the MS solenoid does not operate, and the cassette tape is not ejected.

3. FF/REW Operation

This mechanism performs FF/REW operation with respect to tape running direction. That is depression of the FF button activates operations at the normal side and the reverse side in opposite directions to each other. This is decided by the control circuit.

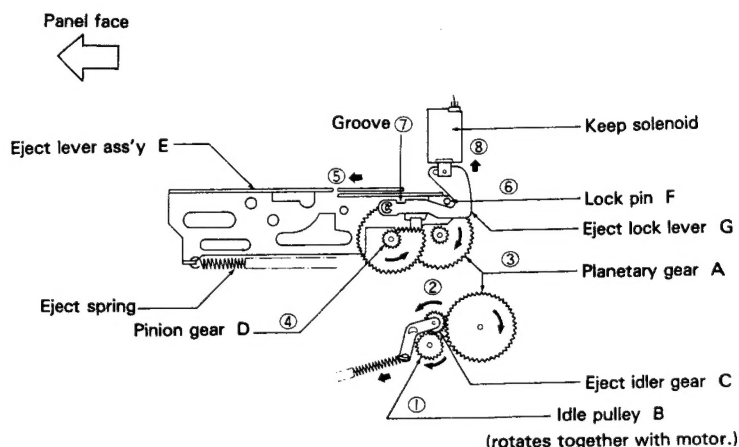


Fig. 8 AUTO-LOADING operation

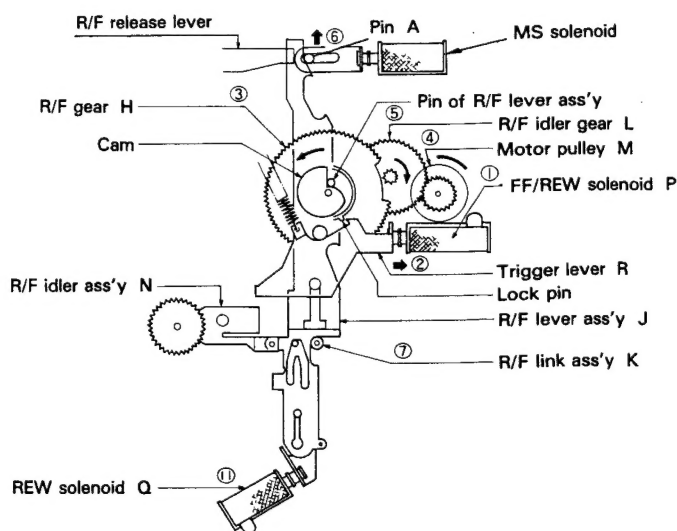


Fig. 9 FF/REW operation

MECHANISM DESCRIPTION

The following is the operational description for the normal direction.

(1) FF

When the FF/REW solenoid P operates, the trigger lever R is pulled to release the lock of the R/F gear H and the R/F gear rotates. Then, the R/F gear engages with the R/F idler gear L through the constantly rotating motor pulley M and rotates by 360 degrees. At the same time, the R/F lever assembly J is pushed up by the cam on the R/F gear in the direction shown by the arrow in Fig. 9. When the R/F lever assembly moves, the pin 1 of the R/F link assembly K is kept directed by a spring to the groove at the left side of the R/F lever assembly. Further, the pin 2 of the R/F link is pushed up in the direction shown by the arrow in Fig. 10, and the R/F idler assembly N interlocking with the pin 3 moves to the flywheel and the reel of the take-up side and transmits rotation to perform fast forward operation.

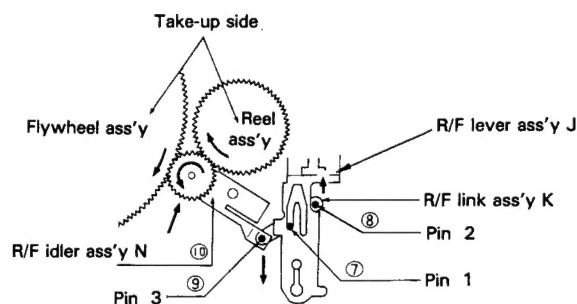


Fig. 10 FF operation

(2) REW

At REW operation, the REW solenoid Q operates in addition to the operation of the FF/REW solenoid, and the pin 1 of the R/F link assembly is directed to the groove at the right side of the R/F lever assembly. Then, the pin 3 of the R/F link assembly is pushed up in the direction shown by the arrow in Fig. 11. The R/F idler assembly interlocking this pin 3 moves to the flywheel and the reel of the supply side to rewind the tape.

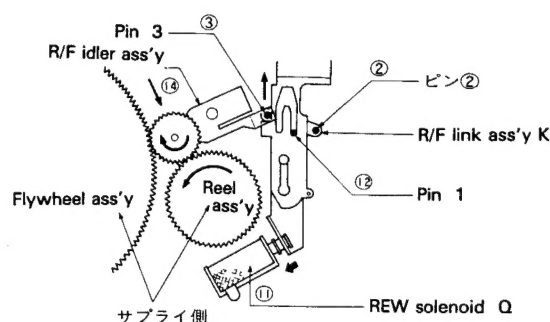


Fig. 11 REW operation

4. AUTO-REVERSE Operation

The reed switch detects, and the reverse solenoid is driven by the control circuit. When the reverse solenoid operates, the lock of the R/F release lever S is released. The R/F release lever pushes the change gear T to rotate it. Then, the change gear engages with the continuously rotating reverse idler gear U and rotates by 180 degrees. At this time, the roller mounted on the rear face of the change gear moves the select lever to switch the contact pressure of the pinch roller, reversing the tape running direction. Further, the slide switch on the head and sw pcb is moved to switch the track.

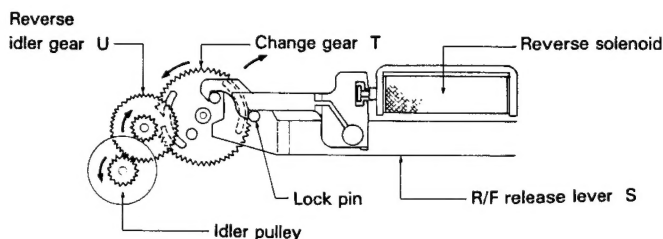


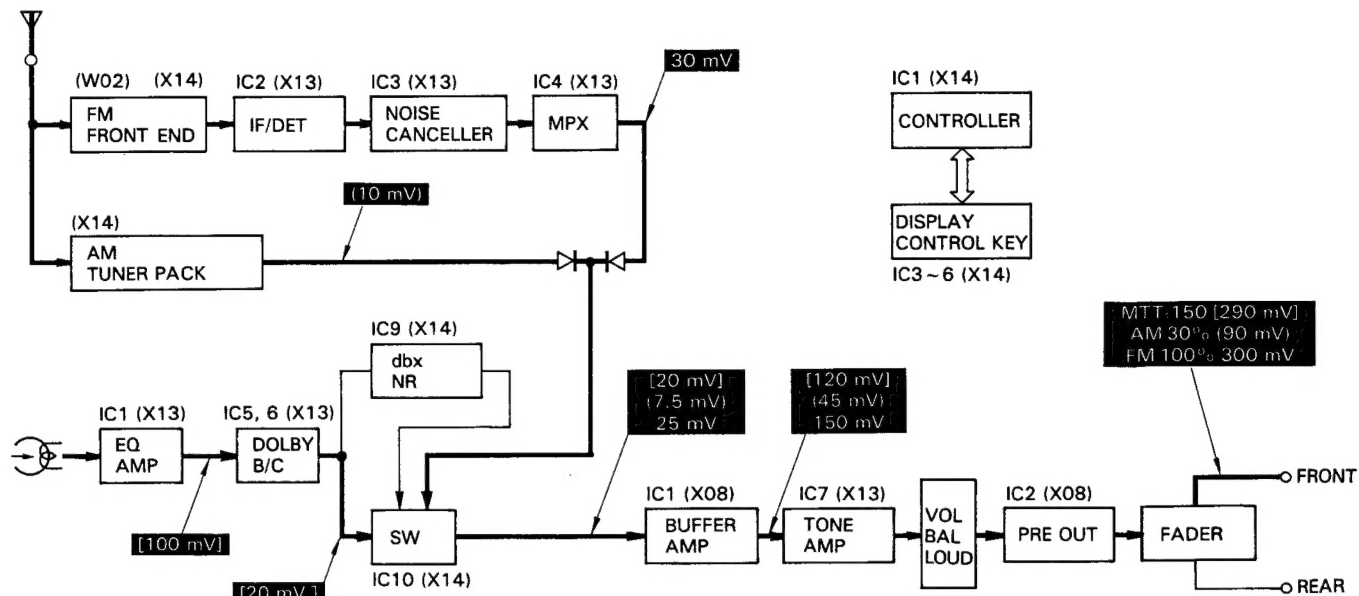
Fig. 12 AUTO-REVERSE operation

5. TAPE ADVANCE

The head also picks up the signal at the time of FF/REW operation. The tape advance circuit senses gaps between five selections and activates the MS solenoid for releasing FF/REW and returning to PLAY. For REPEAT operation, the in-between music gap or the end of a selection is sensed during PLAY and the tape advance operation to the REW direction to find the top of that music for replay performed by the control circuit.

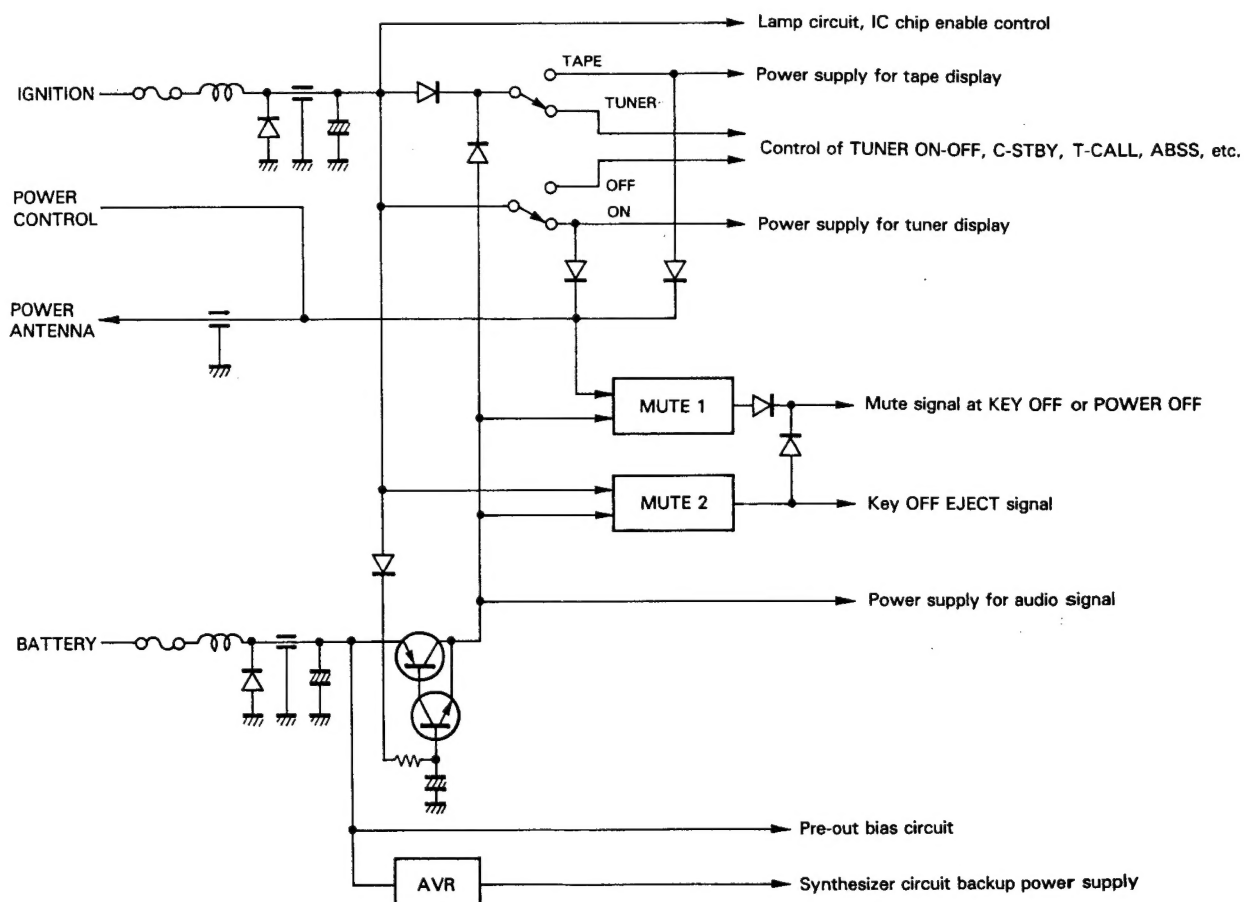
BLOCK DIAGRAM/CIRCUIT DESCRIPTION

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

1. Power supply circuit

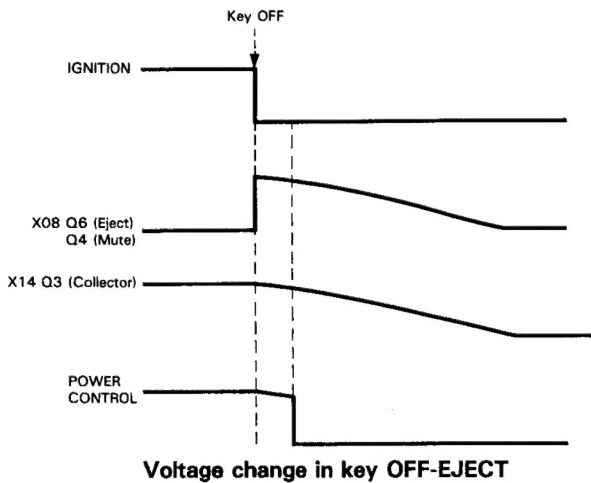


CIRCUIT DESCRIPTION

2. Key OFF EJECT

When the ignition power supply is turned off, Q6 (X08) turns on to provide an EJECT signal to the cassette mechanism through D29 (X14). At the same time, a mute signal is generated in Q5→Q4 collector (X08) through D8 (X08). When the cassette is ejected, the Q3 collector voltage drops slowly and the power control circuit is deactivated quickly to prevent shock noise.

Note: Eject and mute operations are activated by the backup power supply and the energy charged in C42 (X14). Therefore, eject operation cannot be made when the backup power supply and ignition power supply are simultaneously turned off.



3. C. STAND-BY (C-STBY), T-CALL and ABSS

- 1) C-STBY changes the function between TAPE and TUNER according to the signal strength. Reset is done by any of the following methods.
 - a. Turn the C-STBY switch off. → Tape mode is set.
 - b. Key off → Key off ejects, and all operations stop.
 - c. Turn the tuner off. → Tape mode is set.
 - d. Press the EJECT key. → Tuner mode is set.
- 2) T-CALL calls the tuner only during FF or REW in tape mode. Enables memory, preset memory, seek, P-scan, UP and DOWN etc. for tuner, but while C-STBY is on, the tuner is not called.
- 3) ABSS automatically performs seek operation when the signal becomes weak.

4. Synthesizer unit

1) dbx circuit

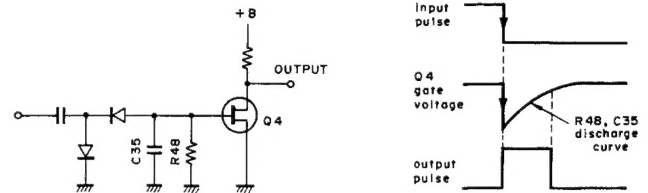
This is a noise reduction circuit comprising Q7, Q8 and IC9. Q7 and Q8 make a filter circuit to prevent the dbx decoder from malfunctioning due to noise and, at the same time, operate as an impedance conversion buffer.

2) Analog switch circuit

IC10 has four switch circuits. Only three of them are used in KRC-929.

- a. TAPE signal (dbx OFF) — Pin 1 "L"
- b. TAPE signal (dbx ON) — Pin 20 "L"
- c. TUNER signal (at T-CALL and TUNER) — Pin 2 "L"

Q4, Q9, D13, D15, D16, D18, D20, D21 and D79 make a muting signal generator circuit to reduce the shock noise generated when the analog switch is changed over. This circuit is shown in figure below.



Input pulse, gate voltage and discharge curve characteristics.

The pin 31 of IC1 is controlled by utilizing the output signal at pin 10 of IC10 through D84 and D71. When tuner mode is changed to tape mode with the C-STBY OFF, the synthesizer temporarily stops operation. P-SCAN is forcibly stopped even if P-SCAN is being performed. When C-STBY is OFF and TUNER ON operation or NR switch is switched, the frequency display momentarily blinks.

3) Ripple filter circuit

This filter is composed of Q3, Q5 and C42, powered from the battery and controlled from IGNITION. When the power (IGNITION) is off, the output of this circuit descends slowly reducing shock noise. It also suppresses noise from the power supply.

4) T ADV circuit

This circuit is composed of IC8 and Q34.

5) Touch switch circuit

This circuit is composed of Q36, IC6, D49, D66, D67 and D68. The output of IC6 drives the LEDs to display DOLBY-B, DOLBY-C and dbx. Q36 inhibits key input other than tape mode. C80 initializes the switch circuit to the OFF mode when the power is turned on.

6) AND GATE circuit

IC5 inhibits key switch input for the tuner in tape mode. When pins 1, 5, 9 and 13 are "H", TUNER and T-CALL modes are on. When these pins are "L", TAPE and TUNER are off.

7) SEEK STOP circuit

The switching circuit composed of D22 - 24 and Q14 - 16 receives S-meter output, mute output (FM) and SD output (AM) from the X13 unit, and outputs a SEEK STOP command (STOP at "H") to IC1.

8) C-STBY and ABSS timer circuit

Composed of IC7 (c/6), (f/6), R68 and C46. The operation time of C-STBY and ABSS is determined by the discharge time constants of R68 and C46. When you want to adjust the timer time, R68 can be varied within a range of 240 kΩ - 1 MΩ.

CIRCUIT DESCRIPTION

9) Other semiconductors and ICs

- IC1: Synthesizer IC. Used also in KRC-7100.
- IC2: Prescaler
- IC3: Segment driver
- IC4: Digit driver
- IC7, d/6: A switch for tape loading with the time constants of C49 and R74.
- IC7, e/6: A buffer inverter for switching C-STBY.
- D4: Power supply stabilizing diode of IC2.
- Q1, D1: Regulated power supply of tape EQ amplifier.
- Q2, D2: Regulated power supply of tuner.
- Q6, D6: Regulated power supply of synthesizer IC
- Q13: A switch to clear C-STBY and ABSS timer with the muting output of the synthesizer IC.
- Q17: A switch to cut off the muting output from the cassette mechanism in TUNER or T-CALL mode.
- Q19: C-STBY driving transistor.
- Q20, Q23: Switching transistors to output +B during FF and REW modes. (This output is used to control T-CALL and mute the tape output.)
- Q21: A switching transistor to inhibit ABSS at tape loading and tuner off.
- Q22, Q25: Switching transistor to perform tuner operation in TUNER and T-CALL modes.
- Q24: A switching transistor to inhibit C-STBY and T-CALL at TUNER OFF.
- Q26: A transistor to drive the synthesizer muting.
- Q27: A transistor to quicken the AGC response time of AM during SEEK and ensure AM SEEK STOP.
- Q28, Q29: LPF to make V_t (tuning voltage) by receiving the output of the PLL phase comparator.
- Q30: A switching transistor to drive the memory enable LED.
- Q31, Q32, Q33: AM/FM power supply switching circuit.
- Q35: A transistor to command SEEK at ABSS.

5. Description of the preamplifier and sub units (X08, X13)

1) X08

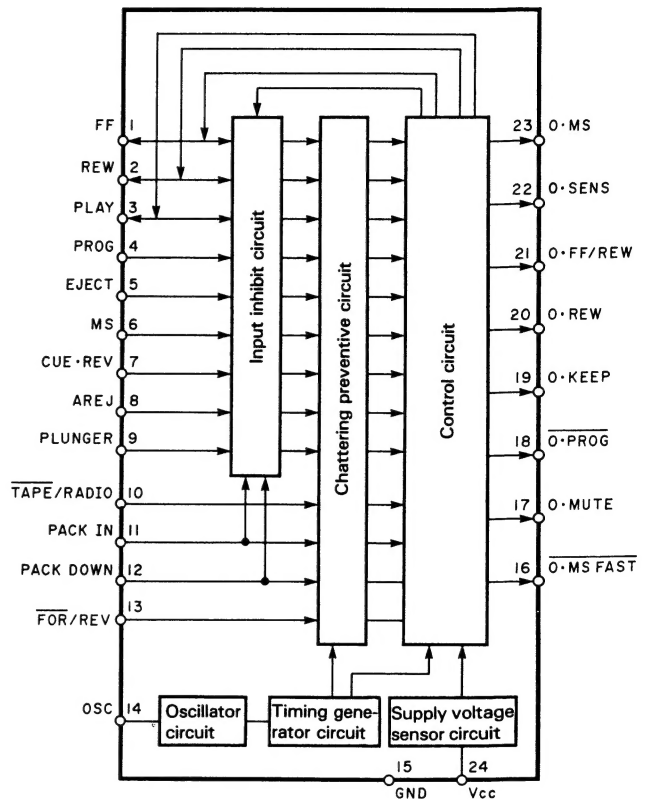
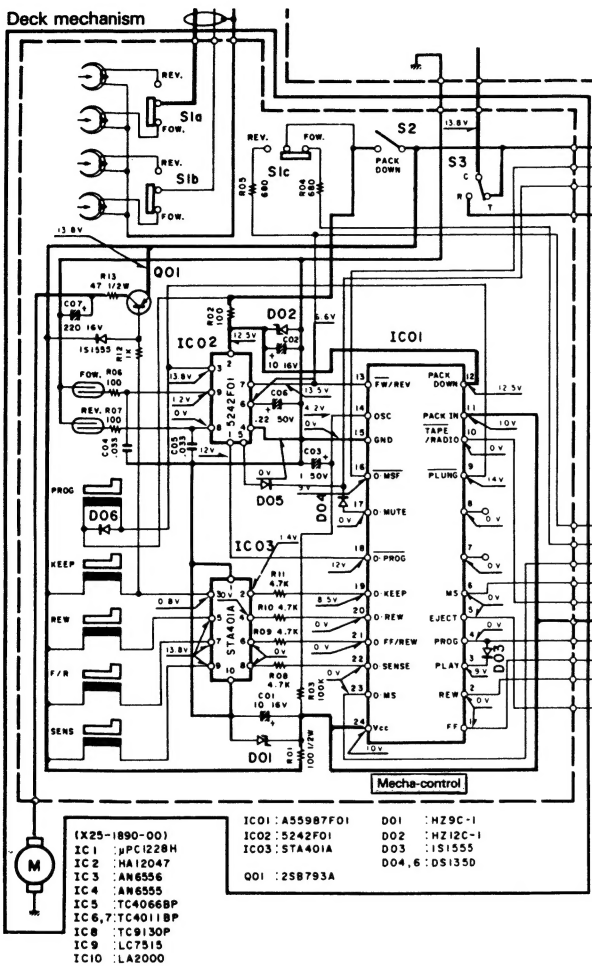
- Q1, Q2: Muting transistors
- Q3: A regulated power supply
- Q4: A transistor to perform muting at POWER CONTROL OFF.
- Q5: A buffer transistor for muting.
- Q6: A switching transistor for key OFF EJECT.
- IC1, 2: Buffer amplifier and preamplifier (low-noise type operation amplifier)
- VR1-f/6: A tuner on-off switch

2) X13

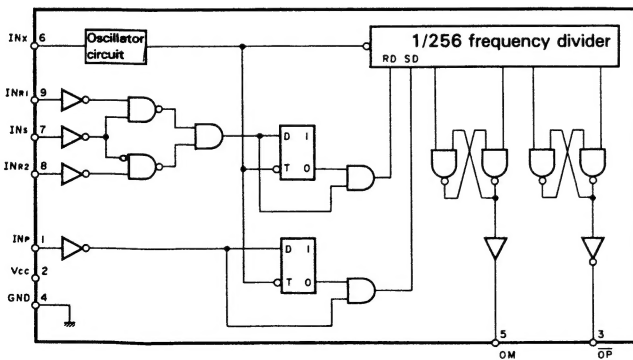
- Q1, Q2: Transistors to perform muting during FF and REW modes
- Q3: A switching transistor to prevent malfunctioning of the noise canceller during weak signal reception.
- Q4: A buffer amplifier.
- Q5, D1: A regulated power supply (for Dolby)
- Q6, D2: A regulated power supply (for tone circuit)
- IC1: A tape equalizer amplifier
- IC2: FM IF and quadrature detector
- IC3: A noise canceller
- IC4: MPX
- IC5, 6: Dolby-NR
- IC7: A tone amplifier

MECHANISM CONTROL DESCRIPTION

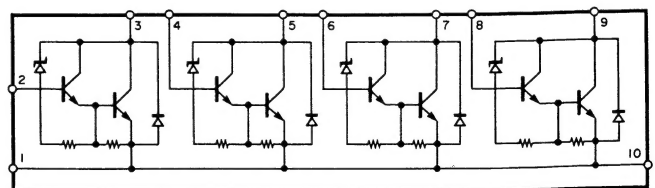
MECHA-CONTROL CIRCUIT



IC01 Mechanism control



IC02 Auto-reverse



















IC03 Solenoid driver

MECHANISM CONTROL DESCRIPTION

IC01 allows the use of soft-touch type keys as the operational input keys, and in addition, it can control operations such as forced reversal of the play direction (PROG), tape cueing (tape advance and repeat), and switching of the radio and the tape (cassette standby). The output is sequence-controlled by the oscillation period decided in the stored oscillator circuit.


(1) Output States for Basic Operation Modes

	Input			Output									
Operation mode	T/R	PACK IN	PACK DOWN	F/R	FF	REW	PLAY	0-SENS	0-FF/REW	0-REW	0-KEEP	0-PROG	0-MUTE
RADIO (C-STBY)	H	L	L	—	L	L	L	L	L	L	L	H	L
LOADING	L	H	L	—	L	L	L	L	L	L	H	H	H
EJECT	L	 ⁽¹⁾	 ⁽¹⁾	—	L	L	L	 ⁽²⁾	L	L	L	H	H
PLAY	L	H	H	—	L	L	H	 ⁽³⁾	L	L	H	H	 ⁽⁴⁾
PROG	L	H	H	—	L	L	H	L	L	L	H	 ⁽³⁾	L
Forward FF	L	H	H	L	H	L	L	 ⁽³⁾	 ⁽³⁾	L	H	H	H
Forward REW	L	H	H	L	L	H	L	 ⁽³⁾	 ⁽³⁾	 ⁽³⁾	H	H	H
Reversc FF	L	H	H	H	H	L	L	 ⁽³⁾	 ⁽³⁾	 ⁽³⁾	H	H	H
Reversc REW	L	H	H	H	L	H	L	 ⁽³⁾	 ⁽³⁾	L	H	H	H

Note 1) In EJECT operation, the PACK DOWN input changes "H—L" due to the 0-KEEP output, and, later, the PACKIN input changes "H—L" due to the 0-SENS output.

- 2) After EJECT operation is initiated, and delayed by T_{D-E} a one shot multivibrator output is supplied.
- 3) A one shot multivibrator output is supplied simultaneously with the mode change.
- 4) It changes "H—L" at the termination of the one shot multivibrator output referred to in note 3).

(2) PROG Operation

If the PROG input is made "H" in PLAY mode, a one shot pulse  is input at the 0-PROG output, reversing the tape running direction.

In FF or REW mode, the PROG input is inhibited. Further, the PROG input is not input while it is held "H", because the rising edge of "L"—"H" is received as an input. In the KRC-929, the PLAY input/output and the PROG input are connected through a diode and used as a PLAY/PROG input. In FF or REW mode, if the PLAY/PROG input is made "H", it is input as a PLAY input (0-PROG output remains "H"). In PLAY mode, if the PLAY/PROG input is made "H", it is input as a PROG input.

(3) MS Operation (Tape Advance)

If the tape advance SW is depressed, the MS input is input. At each depression, the MS mode reverses. During MS-PLAY mode, the 0-MS output is "H" and light the tape advance LED. $\overline{0-MS-F}$ output is "H".

In MS-FAST mode (MS-FF or MS-REW), the 0-MS output blinks and $\overline{0-MS-F}$ output becomes "L". Due to this "L" the tape advance IC operates.

(4) Plunger Input

It is necessary to add the drive signal for the PROG solenoid to PLUNGER input. This is for returning the internal state of the IC to PLAY mode when the tape end is reached during FF or REW.

(5) Input Inhibit

- In TUNER mode, PACK DOWN = "L"
FF, REW and PLAY/PROG are ineffective.
- During cassette loading
FF, REW, PLAY/PROG and EJECT are ineffective.
- Multiple depression
When there are simultaneous inputs of FF, REW, PLAY AND EJECT.

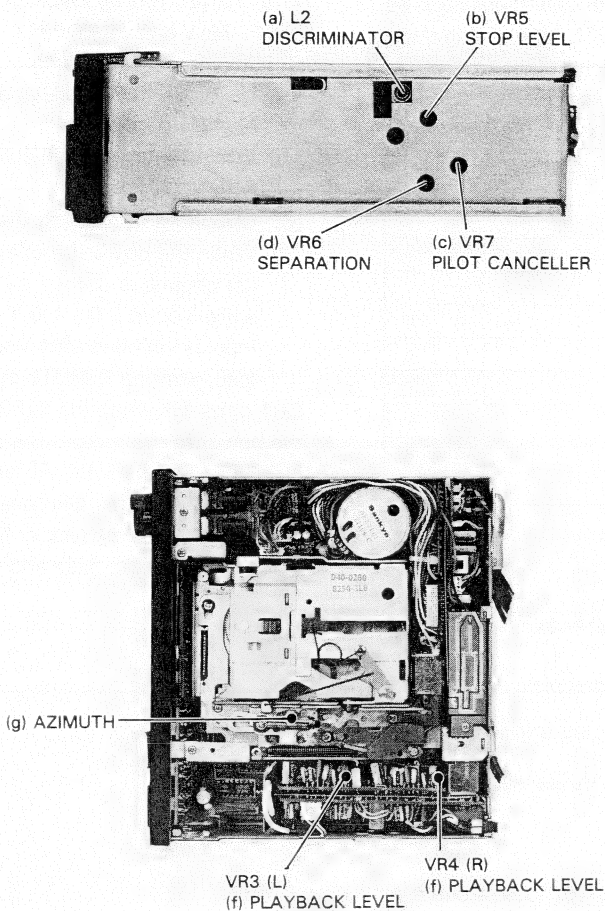
(6) Operation at Turning the Power on

When the power (V_{CC}) enters from 0 V, reset of all internal circuits is carried out. The reset signal is generated while V_{CC} is 1.0 - 1.5 V.

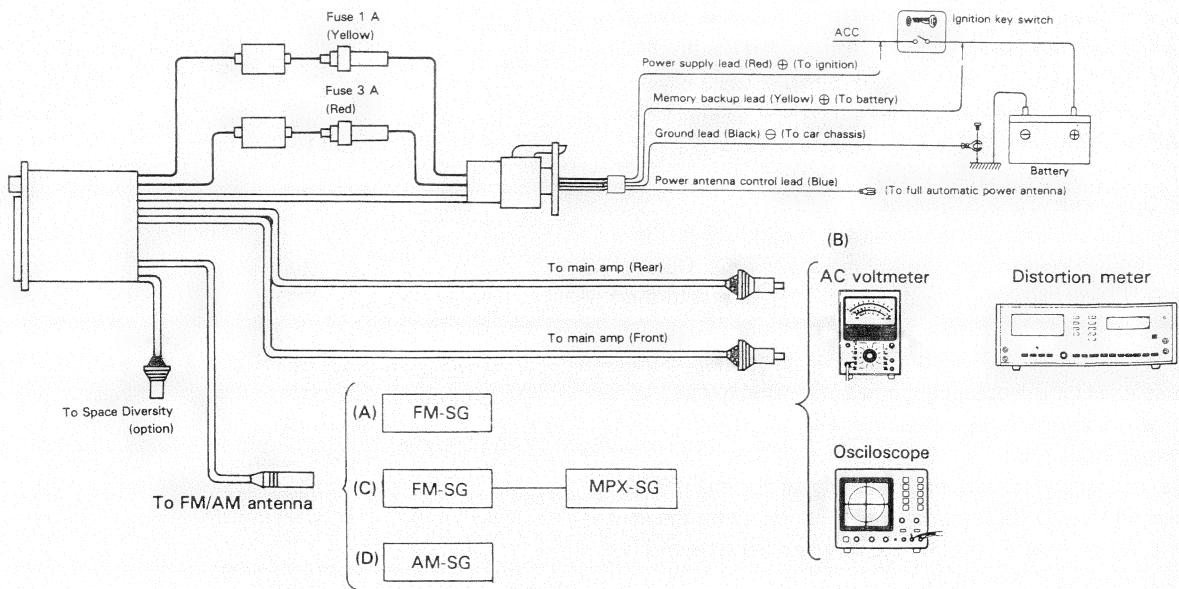
Input is inhibited after V_{CC} exceeds 3.2V for a period of 2 tosc, and the 0-MUTE output is "H" for 4 tosc.

Q01 turns ON when the KEEP solenoid operates and supplies the power to the motor. The KEEP solenoid turns OFF during key-OFF (during PLAY, FF and REW), EJECT and C-STBY, and Q01 also turns OFF and the motor stops. Q01 is protected from the kickback of the KEEP solenoid by inserting a diode between the base and the emitter.

ADJUSTMENT/REGLAGES/ABGLEICH



CONNECTION



ADJUSTMENT

Set the controls and switches as follows.

BALANCE, FADER, BASS, TREBLE : Center position
LOUD, METAL, C-STBY, T-CALL, LOCAL, MONO, ABSS : OFF

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER (RECEIVER) SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG. NO.
FM SECTION							
1	DISCRIMINATOR	(A) 98.1 MHz 0 dev 60 dB (ANT input)	Connecter un voltmètre CC sur R28 (X13).	FM 98.1 MHz	L2 (X13)	0 V	(a)
2	STPO LEVEL	(A) 98.1 MHz 0 dev 20 dB (ANT input)	—	FM 98.1 MHz	VR5 (X13)	STOP	(b)
3	PILOT CANCELLER	(C) 98.1 MHz 0 dev Pilot: ON 60 dB (ANT input)	(B)	FM 98.1 MHz	VR7 (X13)	Minimum output	(c)
4	SEPARATION	(C) 98.1 MHz 1 kHz, ±68.25 kHz dév Selector: L or R Pilot: ±6.75 kHz dév 60 dB (ANT input)	(B)	FM 98.1 MHz	VR6 (X13)	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	(d)
AM SECTION							
(1)	STOP LEVEL	(A) 990 kHz 440 Hz 30% mod 38 dB (ANT input)	—	AM 990 kHz	VR2 (X14)	STOP	(e)
CASSETTE DECK SECTION							
[1]	PLAYBACK LEVEL	PLAY test tape MTT-150	Connect an AC voltmeter to C81 (L) and C82 (R).	TAPE PLAY	VR3 (L) VR4 (R) (X13)	580 mV	(f)
[2]	AZIMUTH	PLAY a test tape MTT-216 (10 kHz)	(B)	TAPE PLAY	Head Azimuth Screw	Adjust so that the output levels of the forward and reverse left and right channels are all maximum and identical	(g)
[3]	dbx	PLAY a test tape MTT-150 or MMT-112	Connect a DC voltmeter across R1 (X14).	TAPE PLAY	VR1 (X14)	15 mV	(h)

REGLAGES

Régler les contrôles et les boutons comme suit.

BALANCE, FADER, BASS, TREBLE : Position centrale
LOUD, METAL, C-STBY, T-CALL, LOCAL, MONO, ABSS : OFF

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG. N°
SECTION FM							
1	DISCRIMINATEUR	(A) 98,1 MHz 0 dév 60 dB (Entrée ANT)	Connecter un voltmètre CC sur R28 (X13).	MF 98,1 MHz	L2 (X13)	0 V	(a)
2	NIVEAU D'ARRET	(A) 98,1 MHz 0 dév 20 dB (Entrée ANT)	—	MF 98,1 MHz	VR5 (X13)	ARRET	(b)
3	SUPPRESSION DE SIGNAL PILOTE	(C) 98,1 MHz 0 dév Pilot: ON 60 dB (Entrée ANT)	(B)	MF 98,1 MHz	VR7 (X13)	Sortie minimale	(c)
4	SEPARATION	(C) 98,1 MHz 1kHz. ±68.25 kHz dév SELECTOR: L ou R Signal pilote: ±6.75 kHz dév 60 dB (Entrée ANT)	(B)	FM 98,1 MHz	VR6 (X13)	Diaphone minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	(d)
SECTION MA							
(1)	NIVEAU D'ARRET	(A) 990 kHz 400 Hz 30% mod 38 dB (Entrée ANT)	—	MA 990 kHz	VR2 (X14)	ARRET	(e)
SECTION DU MAGNETPHONE							
[1]	NIVEAU DE LECTURE	Passer une bande d'essai MTT-150	Connecter un voltmètre CA à C81 (G) et à C82 (D).	Lecture bande	VR3 (G) VR4 (D) (X13)	580 mV	(f)
[2]	AZIMUTH	Passer une bande d'essai MTT-216 (10 kHz)	(B)	Lecture bande	Vis d'azimut de tête	Régler en sorte que les niveaux de sortie des canaux de l'avance de gauche et de droite et des canaux marche arrière de gauche et de droite soient tous au maximum et identiques.	(g)
[3]	dbx	Passer une bande d'essai MTT-150 ou MTT-112B	Connecter un voltmètre CC sur R1 (X14).	Lecture bande	VR1 (X14)	15 mV	(h)

REGLAGES

Régler les contrôles et les boutons comme suit.
BALANCE, FADER, BASS, TREBLE : Position centrale
LOUD, METAL, C-STBY, T-CALL, LOCAL, MONO, ABSS : OFF

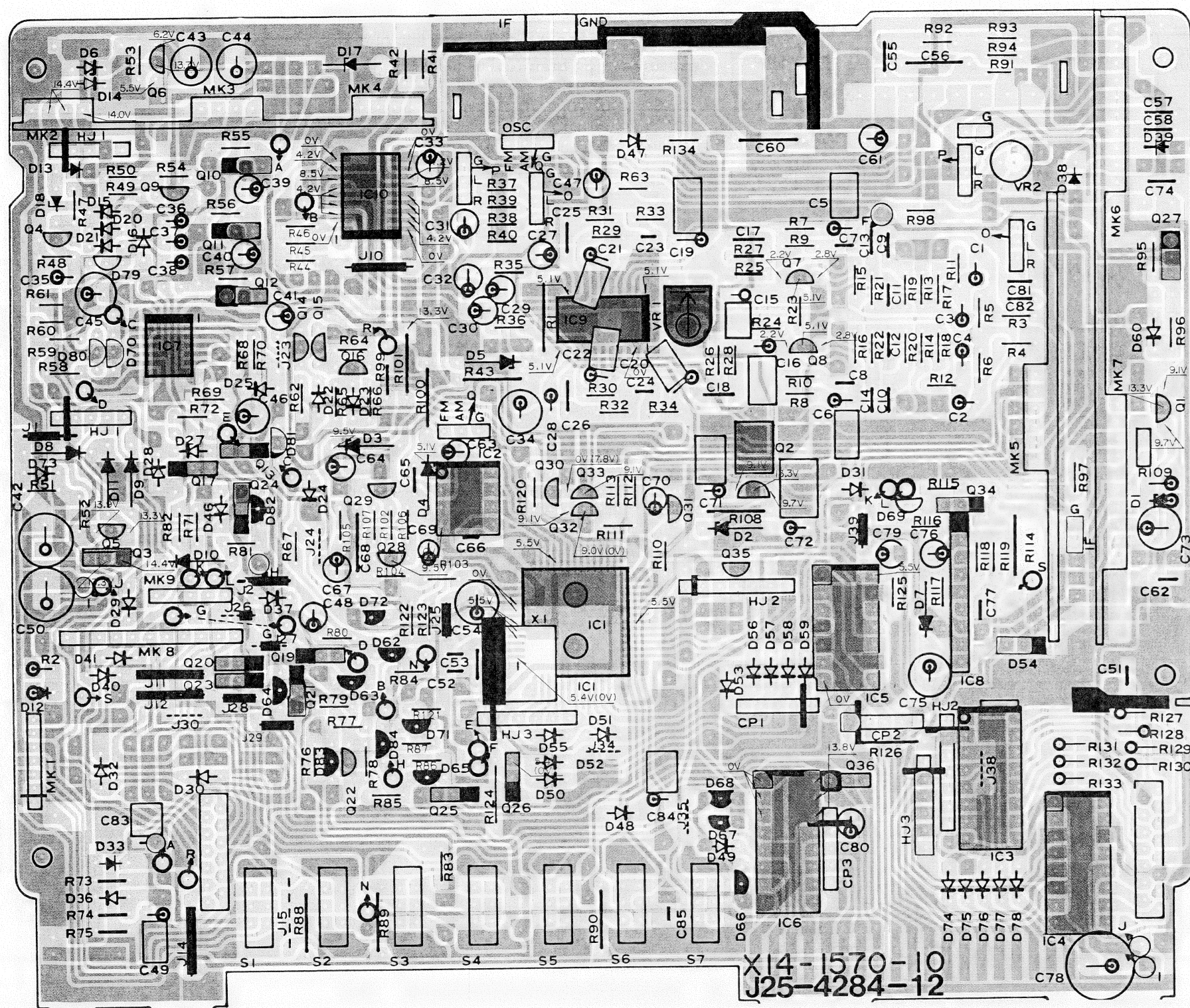
FIG. NO.	N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU TUNER (AMPLI-TUNER)	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG. N°
	SECTION FM							
(a)	1	DISCRIMINATEUR	(A) 98,1 MHz 0 dév 60 dB (Entrée ANT)	Connecter un voltmètre CC sur R28 (X13).	MF 98,1 MHz	L2 (X13)	0 V	(a)
(b)	2	NIVEAU D'ARRET	(A) 98,1 MHz 0 dév 20 dB (Entrée ANT)	—	MF 98,1 MHz	VR5 (X13)	ARRET	(b)
(c)	3	SUPPRESSION DE SIGNAL PILOTE	(C) 98,1 MHz 0 dév Pilot: ON 60 dB (Entrée ANT)	(B)	MF 98,1 MHz	VR7 (X13)	Sortie minimale	(c)
(d)	4	SEPARATION	(C) 98,1 MHz 1kHz. ±68,25 kHz dév SELECTOR: L ou R Signal pilote: ±6,75 kHz dév 60 dB (Entrée ANT)	(B)	FM 98,1 MHz	VR6 (X13)	Diaphone minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	(d)
	SECTION MA							
(e)	(1)	NIVEAU D'ARRET	(A) 990 kHz 400 Hz 30% mod 38 dB (Entrée ANT)	—	MA 990 kHz	VR2 (X14)	ARRET	(e)
	SECTION DU MAGNETPHONE							
(f)	[1]	NIVEAU DE LECTURE	Passer une bande d'essai MTT-150	Connecter un voltmètre CA à C81 (G) et à C82 (D).	Lecture bande	VR3 (G) VR4 (D) (X13)	580 mV	(f)
(g)	[2]	AZIMUTH	Passer une bande d'essai MTT-216 (10 kHz)	(B)	Lecture bande	Vis d'azimut de tête	Régler en sorte que les niveaux de sortie des canaux de l'avance de gauche et de droite et des canaux marche-arrière de gauche et de droite soient tous au maximum et identiques.	(g)
(h)	[3]	dbx	Passer une bande d'essai MTT-150 ou MTT-112B	Connecter un voltmètre CC sur R1 (X14).	Lecture bande	VR1 (X14)	15 mV	(h)

ABGLEICH

Die Regler und Knöpfe wire folgt einstellen
BALANCE, FADER, BASS, TREBLE : Mittelage
LOUD, METAL, C-STBY, T-CALL, LOCAL, MONO, ABSS : OFF

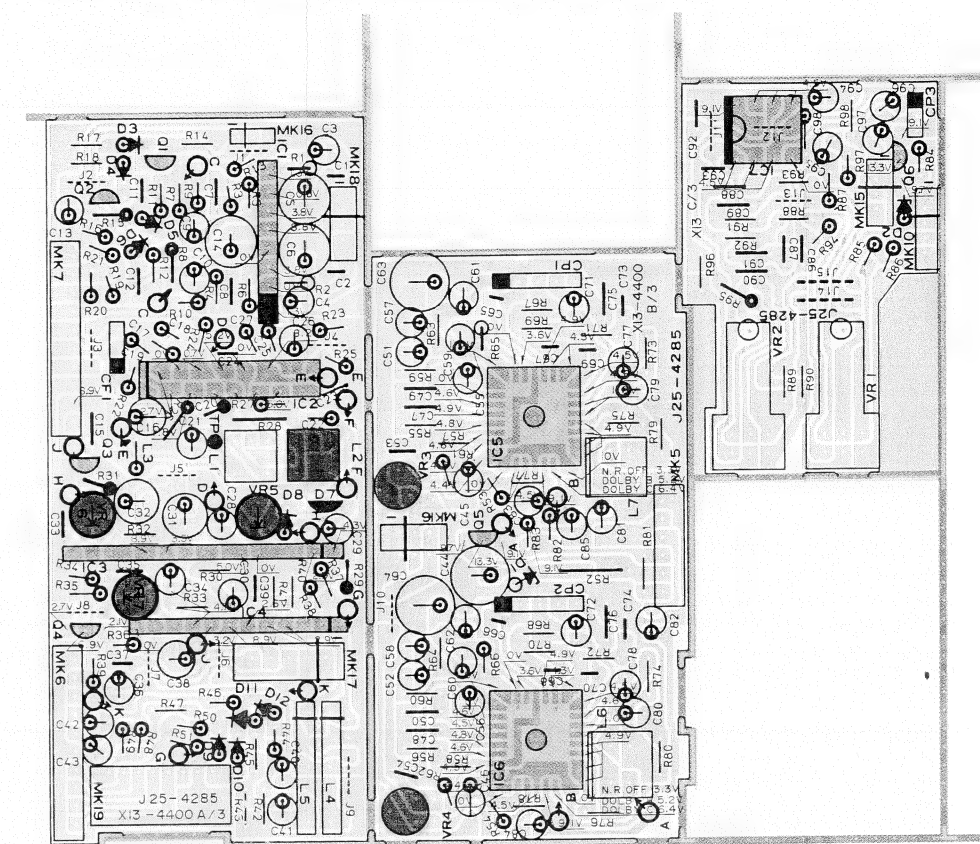
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	TUNER (RECEIVER)-EINSTELLUNG	ABGLEICHE-PUNKTE	ABGLEICHEN FÜR	ABB. NR.
UKW-ABTEILUNG							
1	DISKRIMINATOR	(A) 98,1 MHz 0 Hub 60 dB (ANT-Eingang)	Einen Gleichspannungsmesser über R28 (X13) anschließen.	UKW 98,1 MHz	L2 (X13)	0 V	(a)
2	STOP PEGEL	(A) 98,1 MHz 0 Hub 20 dB (ANT-Eingang)	—	UKW 98,1 MHz	VR5 (X13)	STOP	(b)
3	PILOT-LOSCHER	(C) 98,1 MHz 0 Hub Piloton: ON 60 dB (ANT-Eingang)	(B)	UKW 98,1 MHz	VR7 (X13)	Minimaler Ausgang	(c)
4	STEREO KANAL TRENNUNG	(C) 98,1 MHz 1 kHz. ±68,25 kHz Hub Wahler: L oder R Piloton: ±6,75 kHz Hub 60 dB (ANT-Eingang)	(B)	UKW 98,1 MHz	VR6 (X13)	Minimales Übersprechen. Einen Ausgleichre lung kann notwendig sein, falls linkszu-rechts und rechts-zu-links Trennungen ungleich sind.	(d)
MW-ABTEILUNG							
(1)	STOP PEGEL	(A) 990 kHz 400 Hz, 30% mod 38 dB (ANT-eingang)	—	MW 990 kHz	VR2 (X14)	STOP	(e)
CASSETTEN-DECK-ABTEILUNG							
[1]	WIEDERGABE PEGEL	Ein MTT-150 Testband abspielen	Einen Wechselspannungsmesser zu C81 (L) und C82 (R).	Bandwiedergabe	VR3 (L) VR4 (R) (X13)	580 mV	(f)
[2]	AZIMUTH	Ein MTT-216 (10 kHz) Testband abspielen	(B)	Bandwiedergabe	Kopfazimut-schraube	So einstellen, daß die Ausgangspegel der linken und rechten Kanäle bei Rück lauf maximal und übereinstimmend sind.	(g)
[3]	dbx	Ein MTT-150 order MTT-112B Testband abspielen	Einen Gleichspannungsmesser über R1 (X14).	Bandwiedergabe	VR1 (X14)	15 mV	(h)

SYNTHESIZER UNIT (X14-1570-10) Component side view

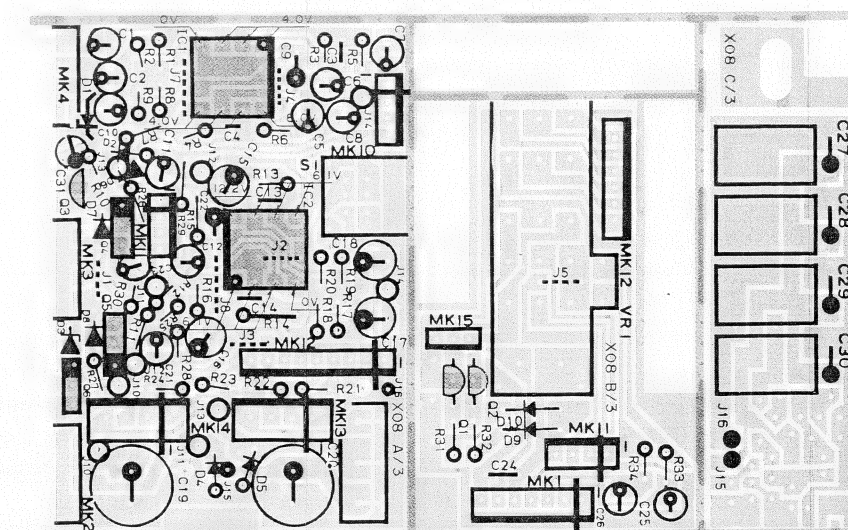


PC BOARD

SUB UNIT (X13-4400-10) Component side view

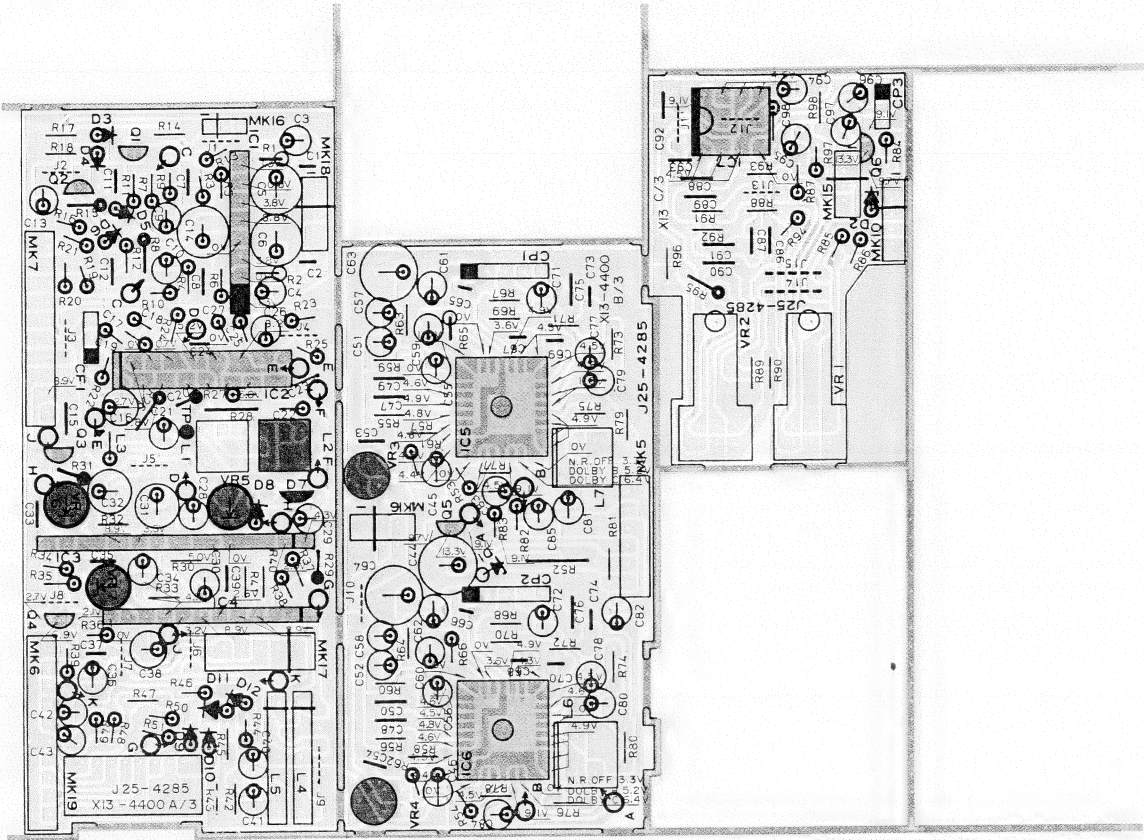


PREAMP UNIT (X08-2120-10) Component side view

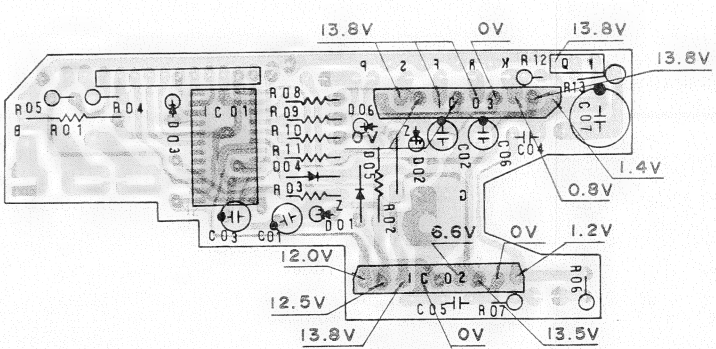


PC BOARD

SUB UNIT (X13-4400-10) Component side view

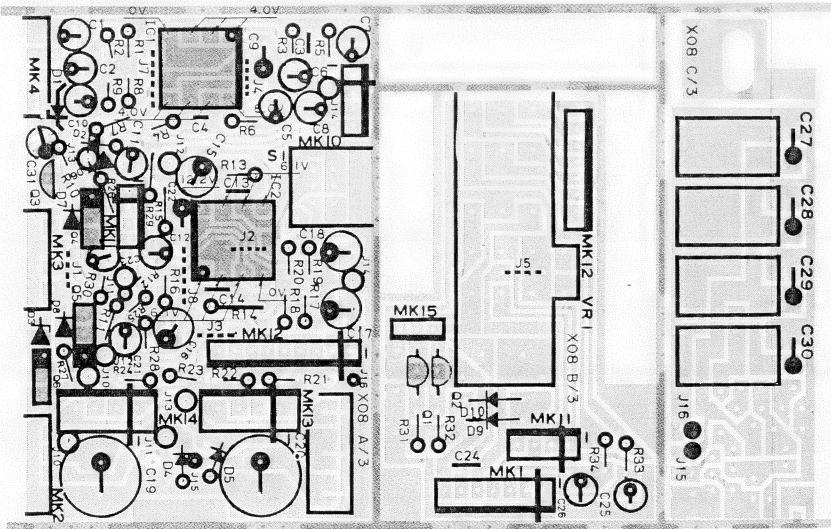


MECHANISM CONTROL (W02-0555-08)
Component side view



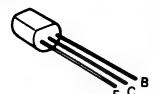
IC01							
Pin	DCV	Pin	DCV	Pin	DCV	Pin	DCV
1	0	9	14.0	17	0		
2	0	10	0	18	12.0		
3	9.0	11	10.0	19	8.5		
4	0	12	12.5	20	0		
5	0	13	13.5	21	0		
6	0	14	4.2	22	0		
7	0	15	0	23	0		
8	0	16	9.0	24	10.0		

PREAMP UNIT (X08-2120-10) Component side view

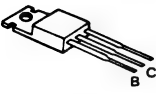


Refer to the schematic diagram for the values of resistors and capacitors.
The PC board drawing is viewing from the side easy to check.

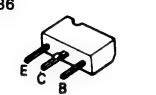
2SD966



2SB1015



2SB641



2SD636

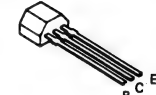
2SB810



2SC2785

2SD102D

2SC2669



2SC2620

2SC2712

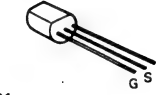
2SC2812

2SC2814

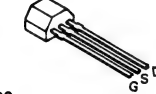
3SK114



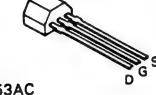
3SK188



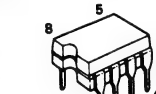
2SK161



2SK330

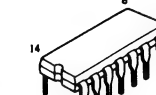


μPB553AC



μPD4069UBG

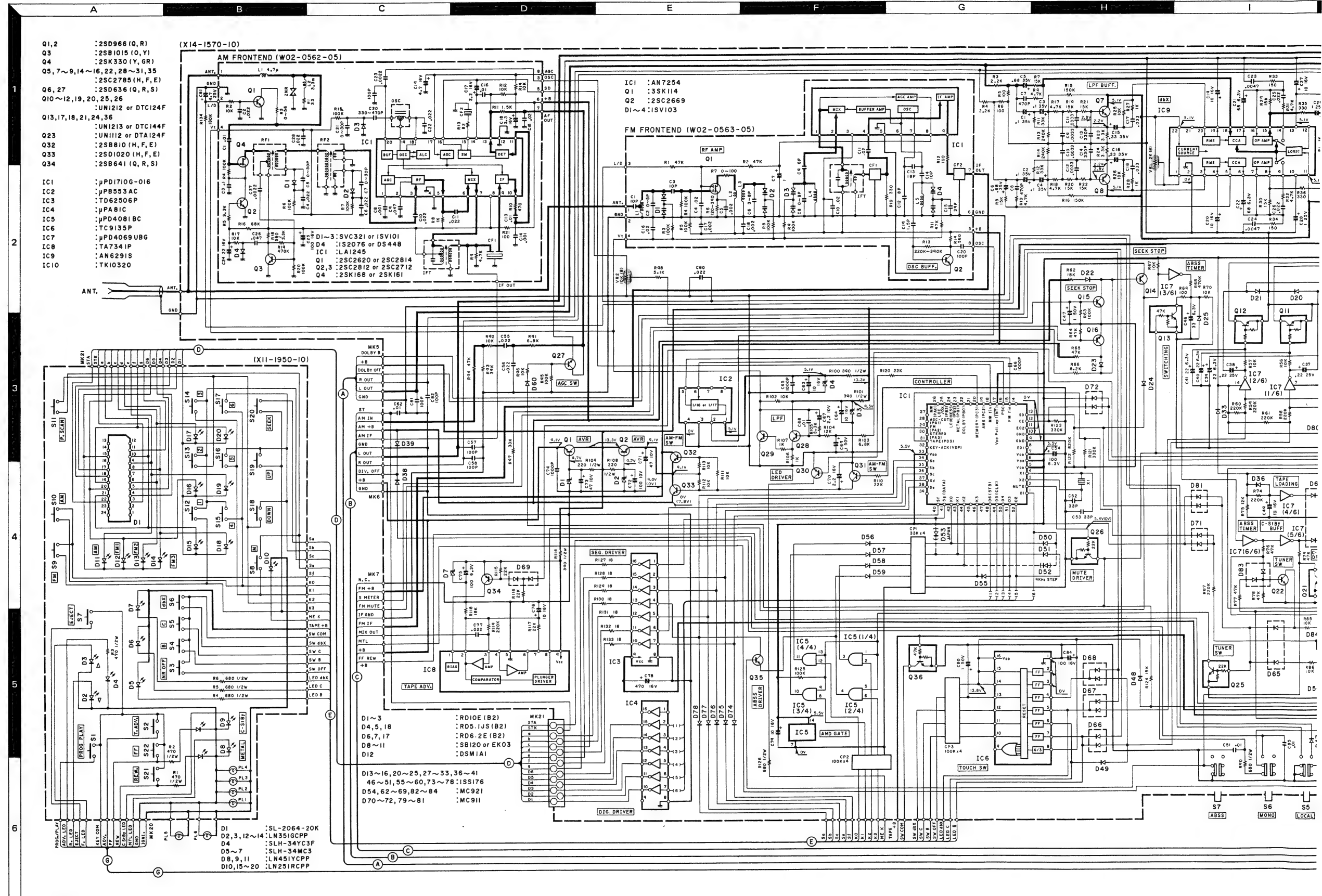
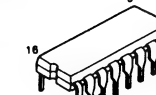
μPD4081BC



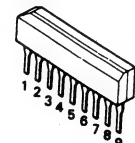
TC9135

TD62506P

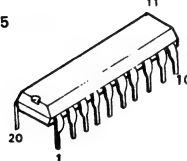
UPA81C



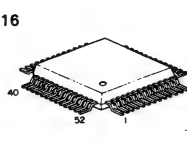
TA7341P



LA1245



μPD1710G-016



DTA124F

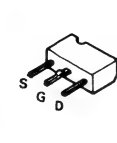
DTC124F

DTC144F

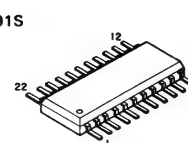
UN1112

UN1212

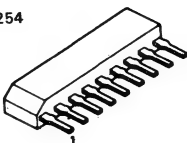
UN1213



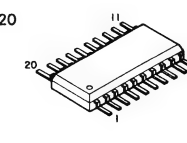
AN6291S



AN7254



TK10320



PLL SYNTHESIZED STEREO CASSETTE TUNER

KRC-929



Specification

Specifications subject to change without notice.

FM Tuner Section

Frequency Range	87.9 MHz — 107.9 MHz
Channel Space	200 kHz
* Usable Sensitivity	14.8 dBf (1.5 μ V/75 Ω)
* 50 dB Quieting Sensitivity	18.4 dBf (2.3 μ V/75 Ω)
* Frequency Response	30 Hz — 15,000 Hz \pm 3 dB
Signal/Noise Ratio	70 dB
* Alternate Channel Selectivity	80 dB
* Capture Ratio	1.2 dB
* Image Response Ratio	82 dB
* IF Response Ratio	95 dB
* Stereo Separation	40 dB (at 1 kHz)

AM Tuner Section

Frequency Range	530 kHz — 1,620 kHz
Channel Space	10 kHz
Sensitivity	30 dB (32 μ V)

Cassette Deck Section

Tape Speed	4.76 cm/s
* Wow and Flutter	0.08% wrms
Fast Winding Time	80 s (C-60)
* Frequency Response	30 Hz — 16 kHz \pm 3 dB (120 μ s)
	30 Hz — 18 kHz \pm 3 dB (70 μ s)
* Stereo Separation	37 dB
* Signal/Noise Ratio	
On	71 dB (A-Weighted)
Off	62 dB (A-Weighted)
Dolby-C	76 dB (A-Weighted)
dbx	86 dB (A-Weighted)


Audio Section

* Tone Action	\pm 10 dB at 100 Hz and 10 kHz
* Pre-amp Output Voltage	300 mV/1.0 V, 10 kohms load
Operating Voltage	14.4 V (11 — 16 V Allowable)
Body Size (W x H x D)	180 x 52 x 155 mm 7-1/16" x 2-1/16" x 6-1/8"
Weight	1.9 kg
(* ... EIA Standard)	

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

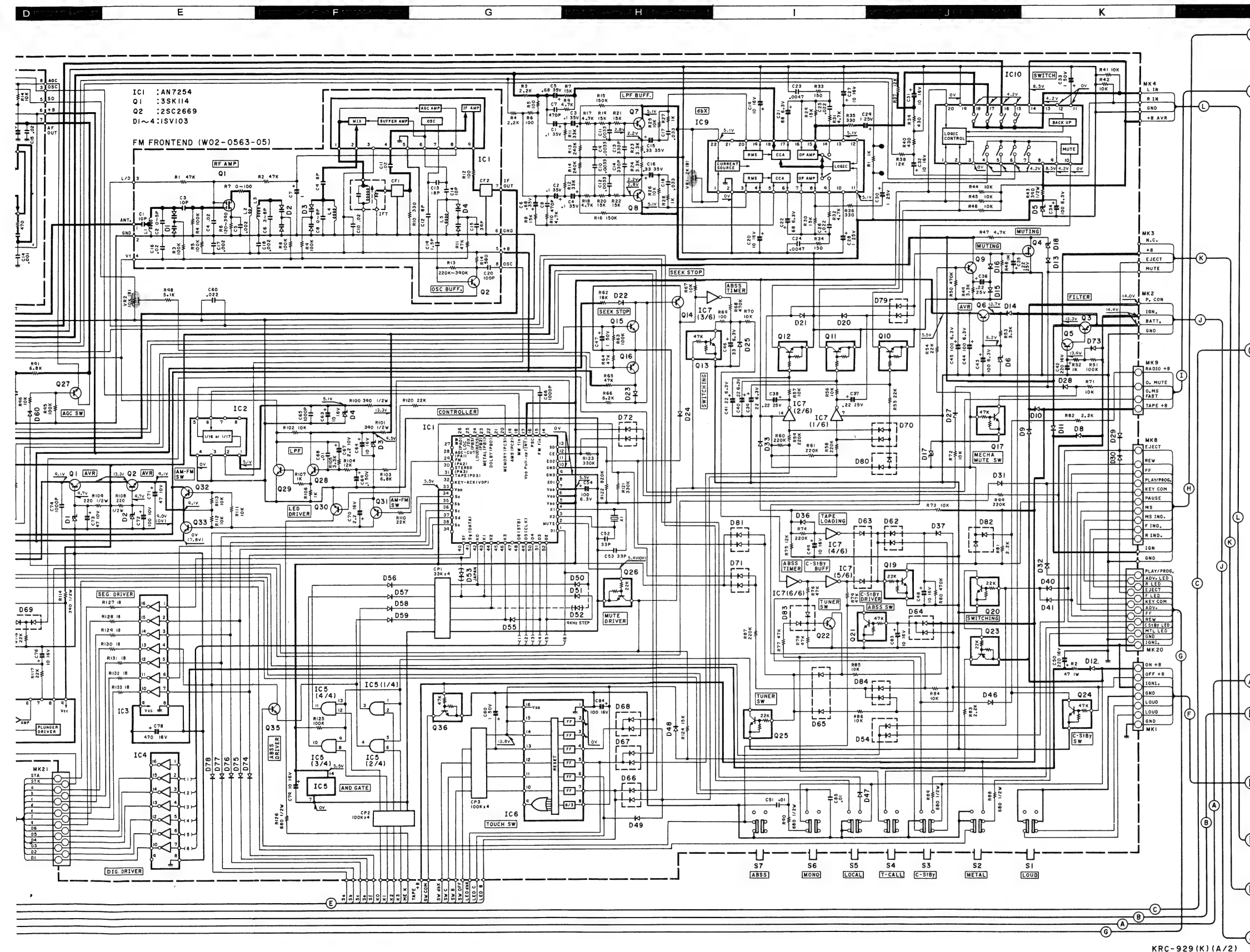
Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

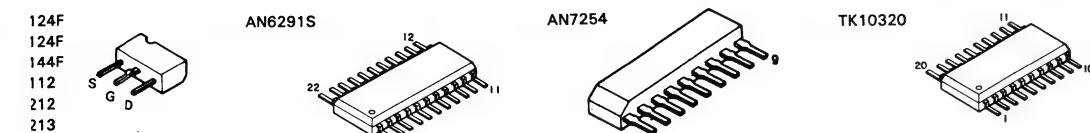
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Corporation.
dbx is a registered trademark of dbx, Inc.

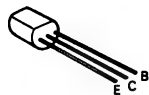
DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



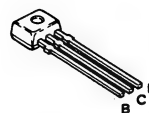
KRC-929 (K) (A/2)



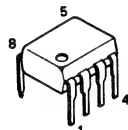
2SD966



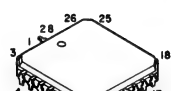
2SC2785
2SD1020



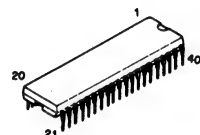
NJM2041D-D



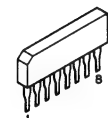
HA12058MP



LA1140



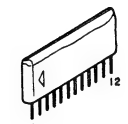
μPC1228H



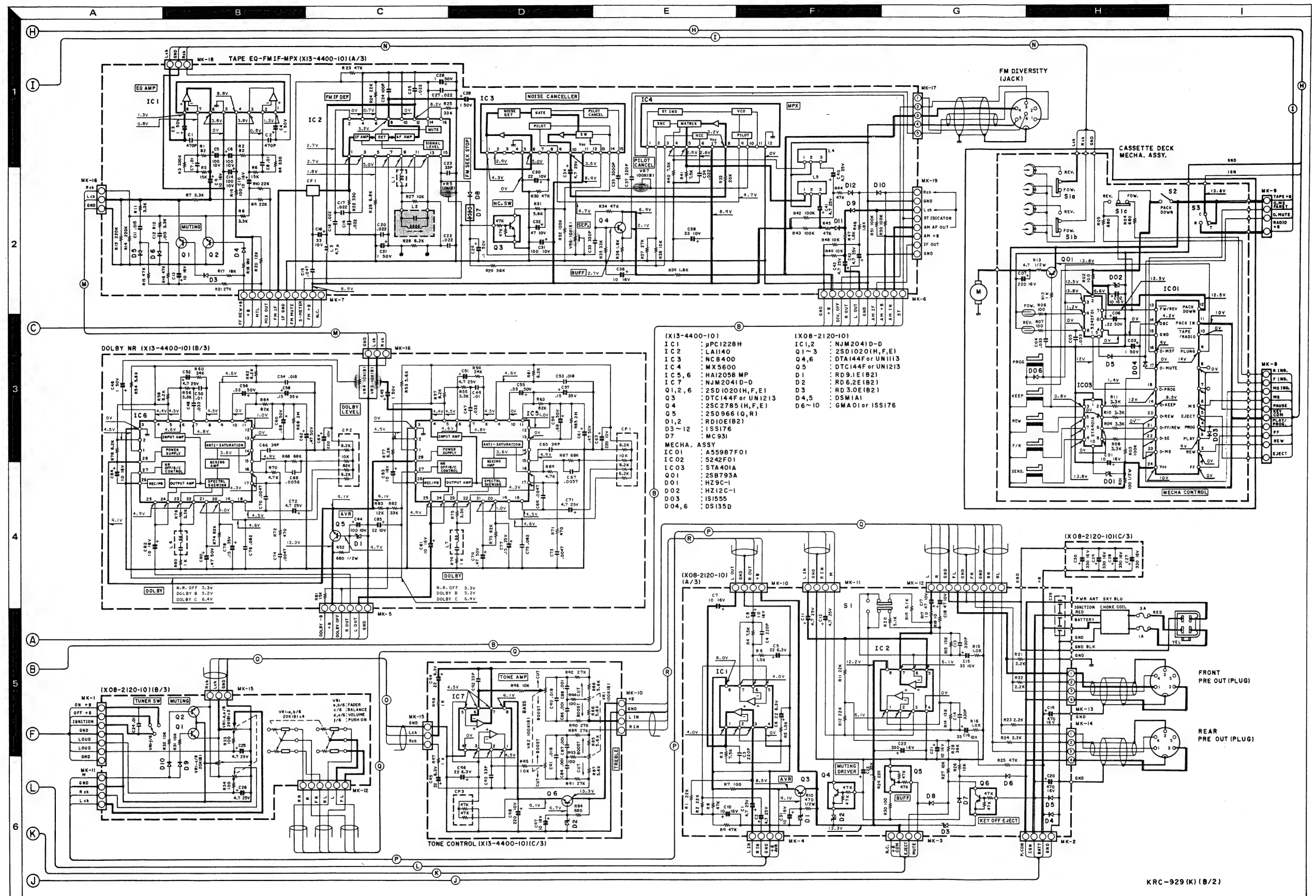
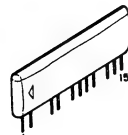
DTA144F
DTC144F
UN1212
UN1213



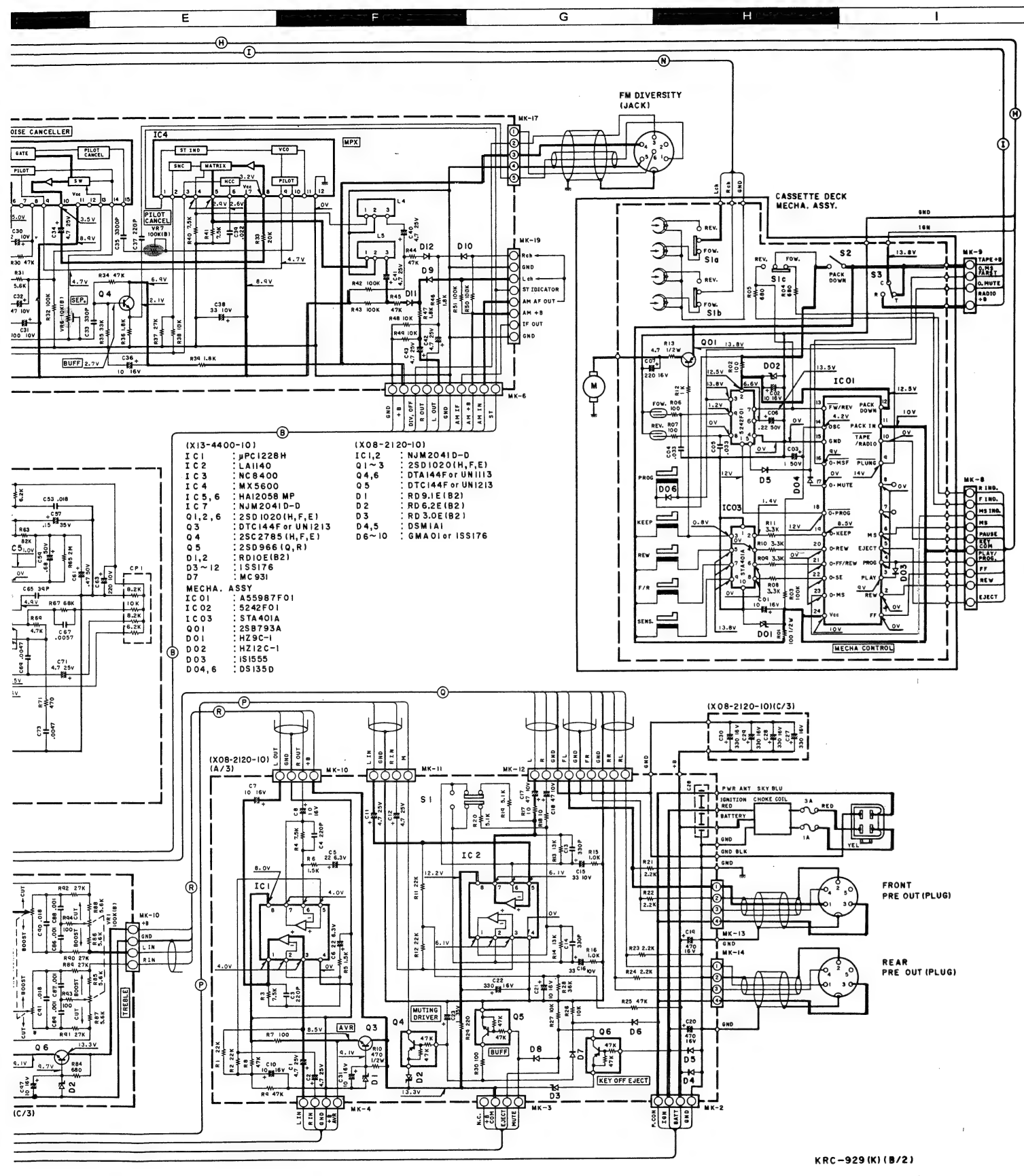
MX5600



MC8400

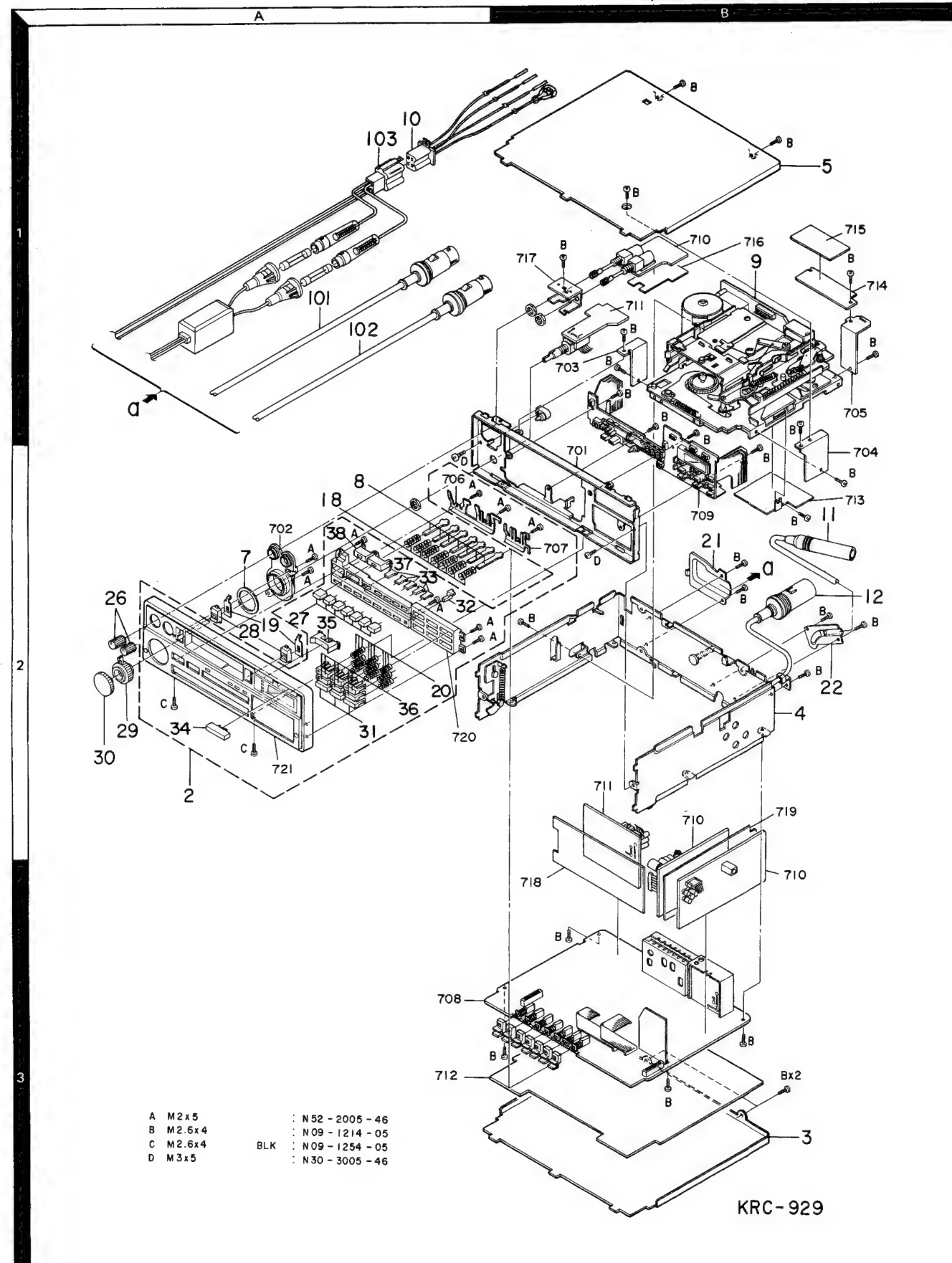


KRC-929



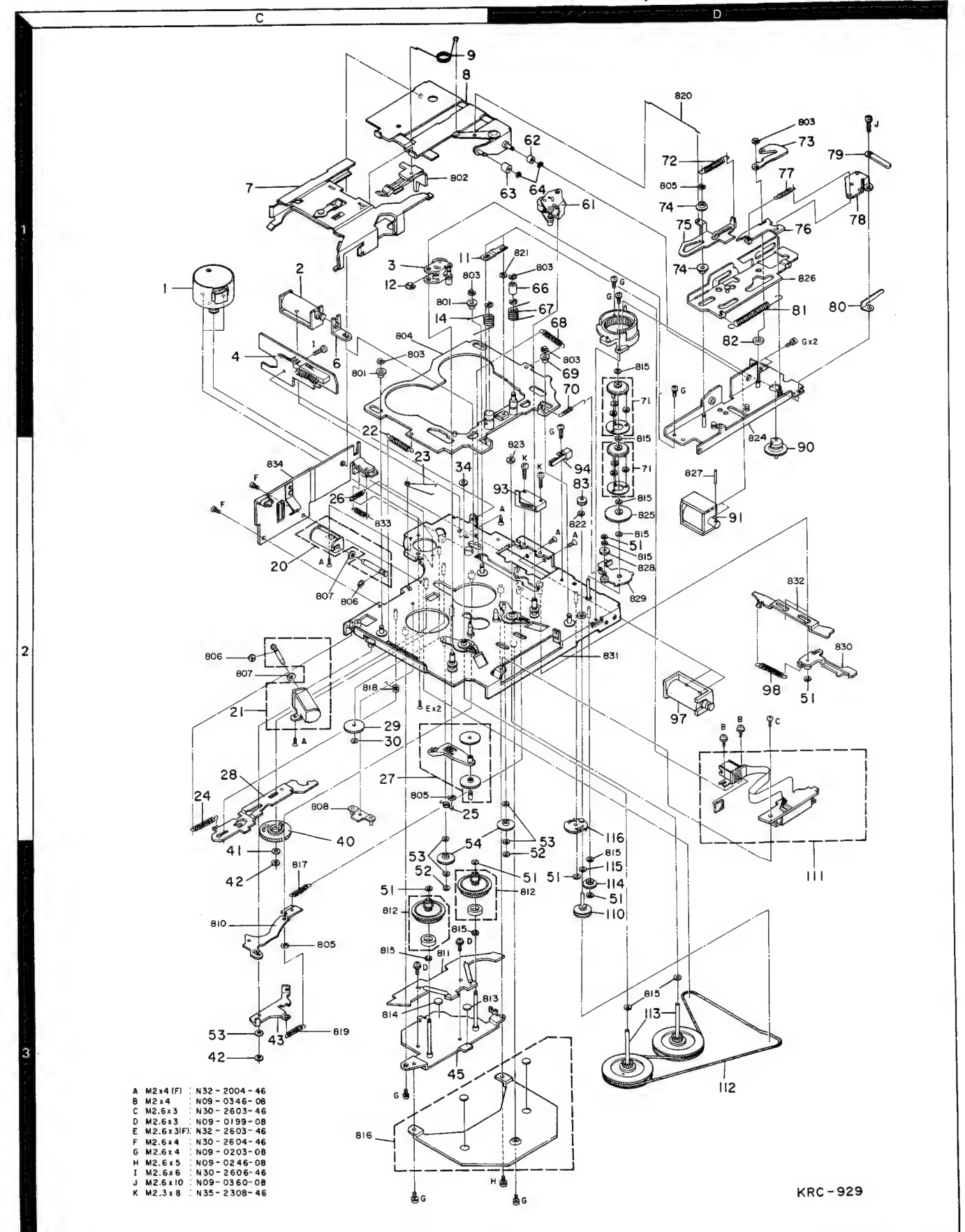
EXPLODED VIEW (UNIT)

Exploded view numbers 700 or more are not supplied.



EXPLODED VIEW (MECHANISM)

Exploded view numbers 800 or more are not supplied.



Refer to parts list on page 20.

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
KRC-929						
2	2A	*	A20-3753-02	PANEL ASSY		
3	3B	*	A40-0329-12	BOTTOM PLATE		
4	2B	*	A50-0118-02	SIDE PLATE ASSY		
5	1B	*	A52-0068-12	TOP COVER		
7	2A	*	B20-0566-04	VOLUME SCALE		
-		*	B40-3346-04	MODEL NAME-PLATE		
-			B41-0352-14	CAUTION STICKER (OUTPUT SW)		
-			B42-0473-24	STICKER		
-			B42-0736-14	STICKER	K	
-			B42-0751-04	STICKER (AM STEREO)		
-			B46-0100-00	WARRANTY CARD		
-			B46-0118-03	QUESTIONNAIRE CARD	K	
-		*	B50-5087-00	INSTRUCTION MANUAL		
-		*	B58-0286-04	CAUTION CARD (DC CORD)		
8	2A	*	D22-0051-04	SHAFT COUPLING		
9	1B		D40-0280-05	CASSETTE MECHANISM ASSY		
10	1A		E30-0827-05	CORD WITH PLUG (DC CORD)		
11	2B	*	E30-0867-05	CORD WITH PLUG (ANT)		
12	2B	*	E30-0868-05	CORD WITH PLUG (DIN)		
18	2A	*	G01-1409-04	COMPRESSION SPRING		
19	2A	*	G02-0125-14	FLAT SPRING (EJECT, PROG)		
20	2A	*	G01-1408-04	COMPRESSION SPRING		
-		*	H01-5013-04	ITEM CARTON CASE		
-		*	H10-1705-03	POLYSTYRENE FOAMED FIXTURE		
-			H25-0085-04	PROTECTION BAG		
-			H25-0112-04	PROTECTION BAG		
-			H25-0188-04	PROTECTION BAG		
-			H25-0192-04	PROTECTION BAG		
21	2B	*	J19-0840-04	LEAD HOLDER (DC CORD)		
22	2B	*	J19-0819-04	LEAD HOLDER (ANT)		
-	1A	*	J21-3367-02	INSTALLATION CASE		
-	1A		J54-0059-04	STAY		
26	2A		K29-0441-04	KNOB BASS, TREBLE		
27	2A	*	K27-1121-04	KNOB (BTN) LOUD, METAL ETC.		
28	2A	*	K27-1126-04	KNOB (BTN) EJECT, PROG		
29	2A		K29-0439-04	KNOB FADER		
30	2A		K29-0440-03	KNOB VOLUME		
31	2A		K27-1120-04	KNOB (BTN) UP, DOWN, SEEK		
32	2A		K27-1122-04	KNOB (BTN) MEMORY		
33	2A		K27-1123-04	KNOB (BTN) T. ADV, NR OFF, B, C, DBX		
34	2A		K27-1125-04	KNOB (BTN) P SCAN		
35	2A		K27-1127-04	KNOB (BTN) FM AM		
36	2A		K29-1481-04	KNOB ASSY PRESET CHANNEL 1-6		
37	2A		K29-1482-04	KNOB ASSY FF		
38	2A		K29-1483-04	KNOB ASSY REW		
PREAMP (X08-2120-10)						
C1 ,2			C90-0482-05	ELECTRO 4.7UF 25WV		
C3 ,4			CK45B1H221K	CERAMIC 220PF K		
C5 ,6			CS15E0J220M	TANTAL 22UF 6.3WV		
C7 ,8			C90-0478-05	ELECTRO 10UF 16WV		
C9			CE04W1A221M	ELECTRO 220UF 10WV		

E: Scandinavia & Europe H: Audio Club K: USA P: Canada
S: South Africa T: England U: PX (Far East, Hawaii)
UE: AAFES (Europe) X: Australia M: Other Areas

PARTS LIST

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnés dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
C10			C90-0478-05	ELECTRO 10UF 16WV		
C11 ,12			C90-0482-05	ELECTRO 4.7UF 25WV		
C13 ,14			CK45B1H331K	CERAMIC 330PF K		
C15 ,16		*	CE04CW1A330M	ELECTRO 33UF 10WV		
C17 ,18			CE04W1A470M	ELECTRO 47UF 10WV		
C19 ,20			C90-0820-05	ELECTRO 470UF 16WV		
C21			C90-0478-05	ELECTRO 10UF 16WV		
C22		*	C90-0811-05	ELECTRO 330UF 16WV		
C23			CS15E1V010M	TANTAL 1UF 35WV		
C24			CQ92M1H103J	MYLAR 0.010UF J		
C25 ,26			C90-0482-05	ELECTRO 4.7UF 25WV		
C27 -30		*	C90-0811-05	ELECTRO 330UF 16WV		
C31			CE04CW1C100M	ELECTRO 10UF 16WV		
C100		*	C91-0649-05	CAPACITOR ASSY		
101	1A	*	E30-0869-15	DIN CORD (FRONT)		
102	1A	*	E30-0871-15	DIN CORD (REAR)		
103	1A	*	E30-0870-05	DC CORD		
VR1		*	R24-1001-05	POTENTIOMETER (ON, VOL, BAL, FADER)		
S1			S31-2074-05	SLIDE SWITCH (HI-LO SW)		
D1			RD9.1E (B2)	ZENER DIODE		
D2			RD6.2E (B2)	ZENER DIODE		
D3			RD3.0E (B2)	ZENER DIODE		
D4 ,5			DSM1A1	DIODE		
D6 -10			GMA01	DIODE		
D6 -10			1SS176	DIODE		
IC1 ,2			NJM2041D-D	IC		
Q1 -3			2SD1020 (H, F, E)	TRANSISTOR		
Q4		*	DTA144F	DIGITAL TRANSISTOR		
Q4		*	UN1113	DIGITAL TRANSISTOR		
Q5		*	DTC144F	DIGITAL TRANSISTOR		
Q5			UN1213	DIGITAL TRANSISTOR		
Q6		*	DTA144F	DIGITAL TRANSISTOR		
Q6		*	UN1113	DIGITAL TRANSISTOR		
CONTROL (X11-1950-10)						
D1		*	B38-0048-05	LED DISPLAY ASSY		
D2 ,3			B30-0480-05	LED		
D4		*	B30-0799-05	LED		
D5 -7		*	B30-0800-05	LED		
D8 ,9			B30-0481-05	LED		
D10			B30-0479-05	LED		
D11			B30-0481-05	LED		
D12 -14			B30-0480-05	LED		
D15 -20			B30-0479-05	LED		
PL1			B30-0435-05	LAMP ASSY		
PL2 -4		*	B30-1006-05	LAMP		
PL5		*	B30-1001-05	LAMP		
S1 -20		*	S40-1079-05	PUSH SWITCH		
S21 ,22		*	S40-1080-05	PUSH SWITCH (FF, REW)		
SUB (X13-4400-10)						
C1 ,2			CK45B1H471K	CERAMIC 470PF K		
C3 ,4			C90-0824-05	ELECTRO 1UF 50WV		
C5 ,6			CE04W1A101M	ELECTRO 100UF 10WV		

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C7 ,8 C9 ,10 C11 ,12 C13 C14			CQ92M1H103J C90-0478-05 CQ92M1H153J C90-0478-05 CE04W1A101M	MYLAR 0.010UF J ELECTRO 10UF 16WV MYLAR 0.015UF J ELECTRO 10UF 16WV ELECTRO 100UF 10WV		
C15 C16 C17 -20 C21 C22			CQ92M1H473J CE04W1A330M C91-0620-05 C90-0824-05 C91-0620-05	MYLAR 0.047UF J ELECTRO 33UF 10WV CERAMIC 0.022UF N ELECTRO 1UF 50WV CERAMIC 0.022UF N		
C23 C24 C25 C26 C27			CC45SL1H330J CK45B1H101K C91-0620-05 C90-0824-05 C91-0620-05	CERAMIC 33PF J CERAMIC 100PF K CERAMIC 0.022UF N ELECTRO 1UF 50WV CERAMIC 0.022UF N		
C28 C29 C30 C31 C32			C90-0824-05 C90-0477-05 C90-0497-05 CE04W1A101M C90-0873-05	ELECTRO 1UF 50WV ELECTRO 0.1UF 50WV ELECTRO 22UF 10WV ELECTRO 100UF 10WV ELECTRO 47UF 10WV		
C33 C34 C35 C36 C37			CK45B1H331K C90-0482-05 C91-0663-05 C90-0478-05 CK45B1H221K	CERAMIC 330PF K ELECTRO 4.7UF 25WV CERAMIC 3300PF J ELECTRO 10UF 16WV CERAMIC 220PF K		
C38 C39 C40 ,41 C42 ,43 C44			CE04W1A330M CQ92M1H223J C90-0482-05 CE04CW1E4R7M CE04W1A101M	ELECTRO 33UF 10WV MYLAR 0.022UF J ELECTRO 4.7UF 25WV ELECTRO 4.7UF 25WV ELECTRO 100UF 10WV		
C45 ,46 C47 ,48 C49 ,50 C51 ,52 C53 ,54			C90-0824-05 CQ92M1H333J CQ92M1H103J C90-0482-05 CQ92M1H183J	ELECTRO 1UF 50WV MYLAR 0.033UF J MYLAR 0.010UF J ELECTRO 4.7UF 25WV MYLAR 0.018UF J		
C55 ,56 C57 ,58 C59 ,60 C61 ,62 C63 ,64			C90-0507-05 CS15E1VR15K C90-1245-05 C90-0484-05 CE04W1A221M	ELECTRO 0.33UF 50WV TANTAL 0.15UF 35WV ELECTRO 0.68UF 50WV ELECTRO 0.47UF 50WV ELECTRO 220UF 10WV		
C65 ,66 C67 ,68 C69 ,70 C71 ,72 C73 ,74			CC45SL1H390J CQ92M1H562J CQ92M1H472J C90-0482-05 CQ92M1H472J	CERAMIC 39PF J MYLAR 5600PF J MYLAR 4700PF J ELECTRO 4.7UF 25WV MYLAR 4700PF J		
C75 ,76 C77 ,78 C79 ,80 C81 -84 C85			CQ92M1H823J CS15E1VR15K C90-0484-05 C90-0478-05 C90-0497-05	MYLAR 0.082UF J TANTAL 0.15UF 35WV ELECTRO 0.47UF 50WV ELECTRO 10UF 16WV ELECTRO 22UF 10WV		
C86 -89 C90 ,91 C92 ,93 C94 -96 C97			CQ92M1H102J CQ92M1H183J CC45SL1H330J C90-0494-05 C90-0478-05	MYLAR 1000PF J MYLAR 0.018UF J CERAMIC 33PF J ELECTRO 22UF 6.3WV ELECTRO 10UF 16WV		

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C98 CF1 L1 L2 L3 L4 ,5 L6 ,7 CP1 ,2 CP3 VR1 ,2 VR3 -6 VR7 D1 ,2 D3 -6 D3 -6 D7 D8 -12 D8 -12 IC1 IC2 IC3 IC4 IC5 ,6 IC7 Q1 ,2 Q3 Q3 Q4 Q5 Q6			CE04W1A221M L72-0145-05 L33-0291-05 L30-0395-05 L40-4791-14 L79-0145-05 L39-0105-05 R90-0259-05 R90-0267-05 R10-5014-05 R12-3071-05 R12-5044-05 RD10E(B2) GMA01 1SS176 MC931 GMA01 1SS176 UPC122BH LA1140 NC8400 MX5600 HA12058MP NJM2041D-D 2SD1020(H,F,E) DTC144F UN1213 2SC2785(H,F,E) 2SD966(Q,R) 2SD1020(H,F,E)	ELECTRO 220UF 10WV CERAMIC FILTER CHOKE COIL FM IFT SMALL FIXED INDUCTOR (4.7UH) LC FILTER TRAP COIL (20KHZ) MULTIPLE RESISTOR MULTIPLE RESISTOR VARIABLE RESISTOR (CLICK) TRIMMING POTENTIOMETER (10KB) TRIMMING POTENTIOMETER (100KB) ZENER DIODE DIODE DIODE DIODE DIODE DIODE IC IC IC IC IC IC TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
SYNTHESIZER (X14-1570-10)						
C1 -4 C5 ,6 C7 ,8 C9 -12 C13 ,14 C15 ,16 C17 ,18 C19 ,20 C21 ,22 C23 ,24 C25 ,26 C27 C28 -30 C31 ,32 C33 C34 C35 -38 C39 -41 C42 C43 -45 C46 C47			CS15E1VR1K CS15E1VR68K CK45B1H471K C91-0663-05 CK45B1H331K CS15E1VR33K CF92V1H333J CS15E1C100K CS15E0J680K C91-0667-05 C91-0683-05 CS15E1C100K CS15E1ED10K CE04CW1C100M CE04CW1H010M CE04CWDJ101M CS15E1ER22K CE04CWDJ220M C90-0486-05 CE04CWDJ101M CE04CWDJ330M CE04CW1H010M	TANTAL 0.1UF 35WV TANTAL 0.68UF 35WV CERAMIC 470PF K CERAMIC 3300PF J CERAMIC 330PF K TANTAL 0.33UF 35WV MF 0.033UF J TANTAL 10UF 16WV TANTAL 68UF 6.3WV CERAMIC 0.0047UF J CERAMIC 0.022UF J TANTAL 10UF 16WV TANTAL 1UF 25WV ELECTRO 10UF 16WV ELECTRO 1.0UF 50WV ELECTRO 100UF 6.3WV TANTAL 0.22UF 25WV ELECTRO 22UF 6.3WV ELECTRO 220UF 16WV ELECTRO 100UF 6.3WV ELECTRO 33UF 6.3WV ELECTRO 1.0UF 50WV		

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C48 ,49		*	CE04CW1C100M	ELECTR0 10UF 16WV		
C50			C90-0486-05	ELECTR0 220UF 16WV		
C51			C91-0675-05	CERAMIC 0.01UF J		
C52 ,53		*	CC45CH1H330J	CERAMIC 33PF J		
C54		*	CE04CW0J101M	ELECTR0 100UF 6.3WV		
C55			C91-0683-05	CERAMIC 0.022UF J		
C56			C91-0085-05	CERAMIC 0.022UF N		
C57 ,58			CK45B1H101K	CERAMIC 100PF K		
C60			C91-0085-05	CERAMIC 0.022UF N		
C61			CE04CW1E4R7M	ELECTR0 4.7UF 25WV		
C62			C91-0675-05	CERAMIC 0.01UF J		
C63 ,64		*	CE04CW1C100M	ELECTR0 10UF 16WV		
C65 ,66			CK45B1H102K	CERAMIC 0.001UF K		
C67		*	CS15E1A2R2K	TANTAL 2.2UF 10WV		
C68			C91-0083-05	CERAMIC 0.01UF N		
C69		*	CE04CW1H0R1M	ELECTR0 0.1UF 50WV		
C70			CE04CW1C220M	ELECTR0 22UF 16WV		
C71			CE04CW1A470M	ELECTR0 47UF 10WV		
C72			C90-0874-05	ELECTR0 100UF 10WV		
C73			CE04CW1A470M	ELECTR0 47UF 10WV		
C74			CK45B1H102K	CERAMIC 0.001UF K		
C75		*	CE04CW0J101M	ELECTR0 100UF 6.3WV		
C76		*	CE04CW1C100M	ELECTR0 10UF 16WV		
C77			C91-0683-05	CERAMIC 0.022UF J		
C78			C90-0820-05	ELECTR0 470UF 16WV		
C79		*	CE04CW1C100M	ELECTR0 10UF 16WV		
C80			CE04CW1H010M	ELECTR0 1.0UF 50WV		
C81 ,82		*	CK45B1H101K	CERAMIC 100PF K		
C83		*	CE04CW1C100M	ELECTR0 10UF 16WV		
C84			C90-1263-05	ELECTR0 100UF 16WV		
C85			C91-0675-05	CERAMIC 0.01UF J		
X1			L77-0573-05	CRYSTAL RESONATOR 4.5MHZ		
CP1			R90-0142-05	MULTIPLE RESISTOR		
CP2 ,3		*	R90-0266-05	MULTIPLE RESISTOR		
R1		*	RN14BK2E1001F	RN 10 1 2E		
R2			RS14AB3A470J	FL-PROOF RS 47 J 3A		
VR1			R12-1303-05	TRIMMING POTENTIOMETER (2KB)		
VR2			R12-3071-05	TRIMMING POTENTIOMETER (10K)		
S1 -7			S40-2145-05	PUSH SWITCH		
D1 -3			RD10E(B2)	ZENER DIODE		
D4 ,5		*	RD5.1JS(B2)	ZENER DIODE		
D6 ,7			RD6.2E(B2)	ZENER DIODE		
D8 -11			EK03	DIODE		
D8 -11			SB120	DIODE		
D12			DSM1A1	DIODE		
D13 -16			1SS176	DIODE		
D17			RD6.2E(B2)	ZENER DIODE		
D18		*	RD5.1JS(B2)	ZENER DIODE		
D20 -25			1SS176	DIODE		
D27 -33			1SS176	DIODE		
D36 -41			1SS176	DIODE		
D46 -51			1SS176	DIODE		

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D54		*	DAN201	DIODE		
D55 -60			1SS176	DIODE		
D62 -69		*	DAN201	DIODE		
D70 -72		*	DAP201	DIODE		
D73 -78			1SS176	DIODE		
D79 -81		*	DAP201	DIODE		
D82 -84		*	DAN201	DIODE		
IC1			UPD1710G-016	IC		
IC2			UPB553AC	IC		
IC3			TD62506P	IC		
IC4			UPA81C	IC		
IC5			UPD4081BC	IC		
IC6		*	TC9135P	IC		
IC7		*	UPD4069UBG	IC		
IC8			TA7341P	IC		
IC9		*	AN6291S	IC		
IC10		*	TK10320	IC		
Q1 ,2			2SD966(Q,R)	TRANSISTOR		
Q3		*	2SB1015	TRANSISTOR		
Q4		*	2SK330(Y,GR)	FET		
Q5			2SC2785(H,F,E)	TRANSISTOR		
Q6			2SD636(Q,R,S)	TRANSISTOR		
Q7 -9			2SC2785(H,F,E)	TRANSISTOR		
Q10 -12		*	DTC124F	DIGITAL TRANSISTOR		
Q10 -12		*	UN1212	DIGITAL TRANSISTOR		
Q13			DTC144F	DIGITAL TRANSISTOR		
Q13			UN1213	DIGITAL TRANSISTOR		
Q14 -16			2SC2785(H,F,E)	TRANSISTOR		
Q17			DTC144F	DIGITAL TRANSISTOR		
Q17			UN1213	DIGITAL TRANSISTOR		
Q19 ,20		*	DTC124F	DIGITAL TRANSISTOR		
Q19 ,20		*	UN1212	DIGITAL TRANSISTOR		
Q21			DTC144F	DIGITAL TRANSISTOR		
Q21			UN1213	DIGITAL TRANSISTOR		
Q22			2SC2785(H,F,E)	TRANSISTOR		
Q23		*	DTA124F	DIGITAL TRANSISTOR		
Q23		*	UN1112	DIGITAL TRANSISTOR		
Q24			DTC144F	DIGITAL TRANSISTOR		
Q24			UN1213	DIGITAL TRANSISTOR		
Q25 ,26		*	DTC124F	DIGITAL TRANSISTOR		
Q25 ,26		*	UN1212	DIGITAL TRANSISTOR		
Q27			2SD636(Q,R,S)	TRANSISTOR		
Q28 -31			2SC2785(H,F,E)	TRANSISTOR		
Q32			2SB810(H,F,E)	TRANSISTOR		
Q33			2SD1020(H,F,E)	TRANSISTOR		
Q34			2SB641(Q,R,S)	TRANSISTOR		
Q35			2SC2785(H,F,E)	TRANSISTOR		
Q36			DTC144F	DIGITAL TRANSISTOR		
Q36			UN1213	DIGITAL TRANSISTOR		
-		*	W02-0562-05	TUNER ASSY (MW)		
-		*	W02-0563-05	FM FRONT-END ASSY		
TUNER ASS'Y (W02-0562-05)						
D1 -3			SVC321	VARIABLE CAPACITANCE DIODE		
D4			1S2076	DIODE		

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IC1 Q1 Q2 ,3 Q2 ,3 Q4 Q4			LA1245 2SC2620 2SC2814 2SC2712 2SC2812 2SK161 2SK168	IC TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR FET FET		
FM FRONTEND (W02-0563-05)						
D1 -4 IC1 Q1 Q2		*	1SV103 AN7254 3SK114(Y) 2SC2669(Y)	VARIABLE CAPACITANCE DIODE IC FET TRANSISTOR		
CASSETTE MECHANISM (D40-0280-05)						
1	1C		T42-0024-08	MOTOR ASSY		
2	1C	*	T94-0035-08	SOLENOID		
3	1C		D14-1175-08	PINCH ROLLER ASSY		
4	1C	*	W02-0555-08	PCB ASSY		
6	1C		D10-0297-08	LEVER (SOLENOID)		
7	1C		J21-1887-28	CASSETTE HOLDER ASSY		
8	1C		J21-3031-08	HOLDER ARM ASSY		
9	1C		G01-0374-18	COIL SPRING (TURN)		
11	1C		G02-0087-08	SPRING (HEAD ADJUSTMENT)		
12	1C		N24-3030-60	WASHER C		
14	1C		G01-0379-08	COIL SPRING (PINCH ROLLER)		
20	2C	*	T94-0036-08	SOLENOID		
21	2C	*	T94-0037-08	SOLENOID		
22	2C		G01-0385-08	TENSION COILED SPRING		
23	2C		G01-0403-08	COIL SPRING		
24	2C		G01-1308-08	TENSION COILED SPRING		
25	2C		G01-0383-08	COIL SPRING (R/F IDLER)		
26	2C		G01-1311-08	TENSION COILED SPRING		
27	2C		D13-0101-08	GEAR ASSY		
28	2C		D10-0360-08	LEVER		
29	2C		D13-0100-08	GEAR (R/F IDLER)		
30	2C		N29-0056-08	WASHER (LOCK)		
34	2C		N19-0355-08	WASHER		
40	3C		D13-0099-08	GEAR		
41	3C		N19-0354-08	WASHER		
42	3C		N24-3030-60	WASHER		
43	3C		D10-0362-08	LEVER		
45	3C		D03-0223-08	REEL BRACKET ASSY		
51	3C,3D		N29-0056-08	WASHER (LOCK)		
52	3C,3D		N29-0057-08	WASHER (LOCK)		
53	3C,3D		N19-0354-08	WASHER		
54	3C		D13-0071-08	GEAR (TAKE-UP)		
61	1D		D14-0076-08	PINCH ROLLER ASSY		
62	1D		J31-0156-18	SPACER		
63	1D		J31-0157-18	SPACER		
64	1D		N24-3012-60	WASHER C		
66	1D		J31-0156-18	SPACER		
67	1D		G01-0378-08	COIL SPRING (PINCH ROLLER)		
68	1D		G01-0377-08	TENSION COILED SPRING		
69	1D		D14-0062-08	ROLLER (HEAD BASE)		
70	1D		G01-1314-08	TENSION COILED SPRING		

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72	1D		G01-0435-08	TENSION COILED SPRING		
73	1D		D10-0278-18	LEVER (EJECT LOCK)		
74	1D		J31-0164-08	SPACER		
75	1D		D10-0279-18	LEVER (SUB)		
76	1D		D10-0296-08	PLATE (HEAD LOCK)		
77	1D		G01-0373-08	TENSION COILED SPRING		
78	1D		J19-0595-08	PLATE (PINION)		
79	1D		J11-0051-08	LUG		
80	1D		G01-0382-08	SPRING (SOLENOID)		
81	1D		G01-0404-08	TENSION COILED SPRING		
82	1D		J31-0163-08	SPACER		
83	1D		D13-0062-08	GEAR (PULLEY)		
90	2D		D13-0070-08	GEAR EJECT ASSY		
91	2D		T94-0015-08	SOLENOID		
93	2D		S56-1022-08	SWITCH (SENSITIVE SWITCH)		
94	2D		S46-1010-08	SWITCH (LEAF)		
97	2D		T94-0018-08	SOLENOID		
98	2D		G01-0425-08	TENSION COILED SPRING		
110	3D		D13-0060-08	GEAR (PULLEY WHEEL)		
111	3D		W02-0518-08	HEAD AND SWITCH ASSY		
112	3D		D16-0059-08	BELT		
113	3D		D01-0036-08	FLYWHEEL ASSY		
114	3D		D13-0061-08	GEAR (REVERSE IDLER)		
115	3D		N19-0302-08	WASHER		

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